

Product datasheet for **RC200406**

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:	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:	>RC200406 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGCCACGGGAGCCAATGCAGAGAAAGCTGAAAGTCACAATGATTGCCCGTCAGACTTTTAAATC
CAAACATAGCAAAAATGAAAGAAGATATTCTCTATCATTTCACACTAGCAGACACAATTTCCC
AGCCTTGTGGAGATGTGAAGTTGTGTGTGGTGGAAAGCCCTCCCGGATGAAAGCCTTCATCAGG
TGCCTGGTGCAGAGCTGGCCCTGACTGCCAGGTAGAGACTATCCCAACATCTGTGCGGGAAGTACC
GCTATGCCATGTATAAAGTAGGACCGGTGCTGTCTGTCAGTCATGGTATGGGCATTCCTTCTATCTCAAT
CATGTTGCATGAGCTCATAAAGCTGCTGTACTATGCCCGGTGCTCCAACGTCACATCATCCGCATTGGC
ACTTCTGGTGGGATAGGTCTGGAGCCCGGCACTGTGGTCATAACAGAGCAGGCAGTGGATACCTGCTTCA
AGGCAGAGTTTGAGCAGATTGCTCTGGGAAGCGGGTCATCCGGAAAACGGACCTTAACAAGAAGCTGGT
GCAGGAGCTGTTGCTGTGTTCTGCAGAGCTGAGCGAGTTCACCACAGTGGTGGGGAACACCATGTGCACC
TTGGACTTCTATGAAGGGCAAGGCCGTCTGGATGGGGCTCTGCTCCTACACGGAGAAGGACAAGCAGG
CGTATCTGGAGGCAGCCTATGCAGCCGGCGTCCGCAATATCGAGATGGAGTCCCGGTGTTTGCCGCCAT
GTGCAGCGCCTGCGGCCCTCAAGCGGCCGTGGTGTGTGTACCCCTCCTGAACCGCCTGGAAGGGGACCAG
ATCAGCAGCCCTCGCAATGTGCTCAGCGAGTACCAGCAGAGGCCCGCAGCGGCTGGTGAGCTACTTCATCA
AGAAGAACTGAGCAAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC200406 protein sequence
Red=Cloning site Green=Tags(s)

MAATGANAEKAESHNDPCVRLLNPNIAKMKEDILYHFNL TTSRHNFPALFGDVKFVCVGGSPSRMKAFIR
 CVGAELGLDCPGRDYPNICAGTDRYAMYKVPVLSVSHGMGIPSIIMLHELKLLYYARCSNVTIIRIG
 TSGGIGLEPGTVVITEQAVDTCFKAEFEQIVLGKRVIRKTDLNKKLVQELLLCSAELSEFTTVVGNMTCT
 LDFYEQGRLDGALCSYTEKDKQAYLEAAYAAGVRNIEMESSVFAAMCSACGLQAAVVCVTLNRLLEGDQ
 ISSPRNVLSEYQQRQLVSYFIKKKLSKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6406_b04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



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:

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: 1733 bp

RefSeq ORF: 933 bp

Locus ID: 7378

UniProt ID: [Q16831](#)

Cytogenetics: 7p12.3

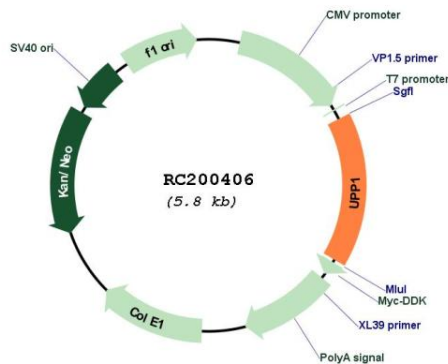
Domains: PNP_UDP_1

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

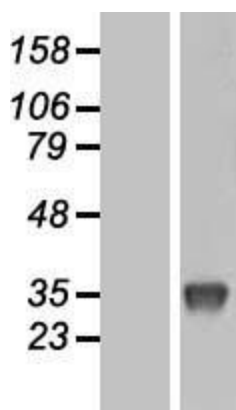
MW: 33.9 kDa

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]

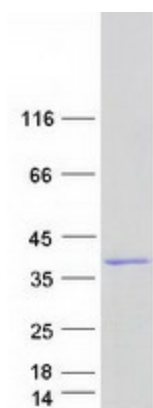
Product images:



Circular map for RC200406



Western blot validation of overexpression lysate (Cat# [LY405710]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC219125] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UPP1 protein (Cat# [TP300406]). The protein was produced from HEK293T cells transfected with UPP1 cDNA clone (Cat# RC200406) using MegaTran 2.0 (Cat# [TT210002]).