

## Product datasheet for RC219125

### Uridine Phosphorylase 1 (UPP1) (NM\_181597) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Uridine Phosphorylase 1 (UPP1) (NM_181597) 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:	>RC219125 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGGCCACGGGAGCCAATGCAGAGAAAGCTGAAAGTCACAATGATTGCCCGTCAGACTTTTAAATC  
CAAACATAGCAAAAATGAAAGAAGATATTCTCTATCATTTCATCTCACCCTAGCAGACACAATTTCCC  
AGCCTTGTGGAGATGTGAAGTTGTGTGTGTTGGTGAAGCCCTCCCGGATGAAAGCCTTCATCAGG  
TGCCTTGGTGCAGAGCTGGCCCTGACTGCCAGGTAGAGACTATCCCAACATCTGTGCGGGAAGTACC  
GCTATGCCATGTATAAAGTAGGACCGGTGCTGTCTGTCTGTCAGTCATGGTATGGGCATTCCTTCTATCTCAAT  
CATGTTGCATGAGCTCATAAAGCTGCTGTACTATGCCCGGTGCTCCAACGTCAGTATCATCCGCATTGGC  
ACTTCTGGTGGGATAGGTCTGGAGCCCGGCACTGTGGTCATAACAGAGCAGGCAGTGGATACCTGCTTCA  
AGGCAGAGTTTGAGCAGATTGTCTGGGGAAGCGGGTATCCGGAAAACGGACCTTAACAAGAAGCTGGT  
GCAGGAGCTGTTGCTGTGTTCTGCAGAGCTGAGCGAGTTCACCACAGTGGTGGGGAACACCATGTGCACC  
TTGGACTTCTATGAAGGGCAAGGCCGTCTGGATGGGGCTCTGCTCCTACACGGAGAAGGACAAGCAGG  
CGTATCTGGAGGCAGCCTATGCAGCCGGCGTCCGCAATATCGAGATGGAGTCCCGGTGTTTGCCGCCAT  
GTGCAGCGCCTGCGGCCCTCAAGCGGCCGTGGTGTGTGTACCCCTCCTGAACCGCCTGGAAGGGGACCAG  
ATCAGCAGCCCTCGCAATGTGCTCAGCGAGTACCAGCAGAGGCCCGCAGCGGCTGGTGAGCTACTTCATCA  
AGAAGAACTGAGCAAGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC219125 protein sequence  
Red=Cloning site Green=Tags(s)

MAATGANAEKAESHNDPCVRLLNPNIAKMKEDILYHFNL TTSRHNFPALFGDVKFVCVGGSPSRMKAFIR  
 CVGAELGLDCPGRDYPNICAGTDYAMYKVPVLSVSHGMGIPSI SIMLHEL IKLLYYARCSNVTIIRIG  
 TSGGIGLEPGTVVITEQAVDTCFKAEFEQIVLGKRVIRKTDLNKKLVQELLLCSAELSEFTTVVGNMTCT  
 LDFYEQGRLDGALCSYTEKDKQAYLEAAYAAGVRNIEMESSVFAAMCSACGLQAAVVCVTLNRLLEGDQ  
 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\_181597

**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\\_181597.1](#), [NP\\_853628.1](#)

**RefSeq Size:** 1857 bp

**RefSeq ORF:** 932 bp

**Locus ID:** 7378

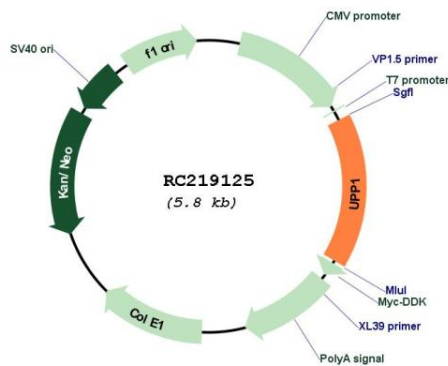
**Cytogenetics:** 7p12.3

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

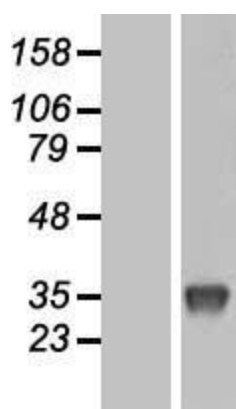
**MW:** 33.9 kDa

**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]

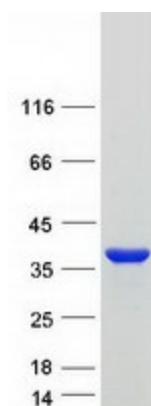
## Product images:



Circular map for RC219125



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# [TP319125]). The protein was produced from HEK293T cells transfected with UPP1 cDNA clone (Cat# RC219125) using MegaTran 2.0 (Cat# [TT210002]).