

Product datasheet for **RG207260**

UPP2 (NM_173355) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UPP2 (NM_173355) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UPP2
Synonyms:	UDRPASE2; UP2; UPASE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207260 representing NM_173355 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCAGTTATACCTGCCTCCAATAGGTCCATGAGATCTGACAGGAATACATATGTTGGAAAAAGGT
TTGTTACAGTTAAAAATCCTTACTTGGATTTGATGGATGAAGACATTCTCTATCACTTGGATTTGGGAAC
AAAAACACACAACCTACCAGCAATGTTTGGAGATGTAAGTTTGTCTGTGTGGTGGGAGCCCCAACAGA
ATGAAAGCATTGCACTGTTTATGCACAAGGAGCTCGGGTTTGGGAAGCTGAAGAAGACATAAAAGACA
TCTGTGCTGGGACAGACAGATACTGTATGTACAAAACCGGCCTGTGCTCGCCATCAGTCACGGCATGGG
CATCCCCTCCATTCTATTATGCTTCATGAACTCATCAAATACTCCACCATGCACGGTGTGCGATGTC
ACCATTATTAGAATCGGTACATCAGGGGAATAGGGATTGCACCAGGGACTGTTGTAATAACGGATATAG
CTGTAGACTCCTTCTTTAAGCCCCGGTTTGAACAGGTCATTTTGGACAACATTGTCACCCGAAGTACTGA
ACTGGACAAGAAGTGTCTGAAGAAGTGTCAACTGTAGCAAAGAAAATCCCCAACTTCCCAACCTCGTT
GGACATACAATGTGTACCTATGATTTTTATGAAGGCCAAGGCCGACTAGATGGAGCACTGTGCTCCTTTT
CCAGAGAAAAAAGTTAGACTACTTGAAGAGAGCATTTAAAGCTGGTGTGAGGAATTTGAAATGGAATC
TACAGTGTGTCAGCTATGTGTGGACTCTGTGGTCTAAAAGCTGCTGTGGTCTGTGTGACACTTCTCGAC
AGACTCGACTGTGATCAGATCAACTGCCTCATGATGTCCTGGTGGAGTACCAGCAACGGCCTCAGCTCC
TAATCTCCAACCTCATCAGACGGCGGCTTGGACTTTGTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG207260 representing NM_173355
Red=Cloning site Green=Tags(s)

MASVIPASNRSMRSDRNTYVGKRFVHVKNPYLDLMDDEDILYHLDLGTKTHNLPAMFGDVKFVCGGSPNR
 MKAFALFMHKELGFEEAEEDIKIDICAGTDRYCMYKTGPVLAISHGMGIPISISIMLHELKLLHHARCCDV
 TIIRIGTSGGIGIAPGTVVITDIAVDSFFKPRFEQVILDNIIVTRSTELDKELSEELFNCSKEIPNFPTLV
 GHTMCTYDFYEQGRLDGALCSFSREKKLDYLKRAFKAGVRNIEMESTVF AAMCGLCGLKAAVVCVTLTD
 RLDCDQINLPHDVLVEYQQRPELLISNFIRRRLLGLCD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173355

ORF Size: 951 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_173355.4](#)

RefSeq Size: 2236 bp

RefSeq ORF: 954 bp

Locus ID: 151531

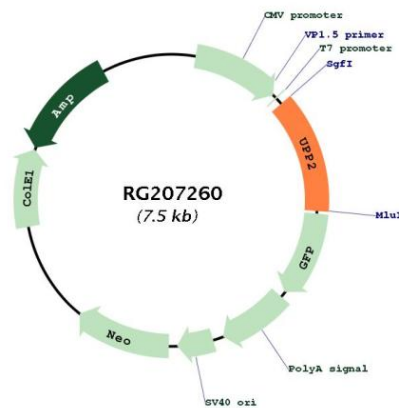
UniProt ID: [O95045](#)

Cytogenetics: 2q24.1

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

Gene Summary: Catalyzes the reversible phosphorylytic cleavage of uridine and deoxyuridine to uracil and ribose- or deoxyribose-1-phosphate. The produced molecules are then utilized as carbon and energy sources or in the rescue of pyrimidine bases for nucleotide synthesis. Shows substrate specificity and accept uridine, deoxyuridine, and thymidine as well as the two pyrimidine nucleoside analogs 5-fluorouridine and 5-fluoro-2(-)-deoxyuridine as substrates. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG207260