

Product datasheet for **RG225573**

UPP2 (NM_001135098) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UPP2 (NM_001135098) 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:	>RG225573 representing NM_001135098 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGCCCCAGGCTGTGAGTTGGACCCAGACCAAGAAGTGGTGAGGACAAGGCCTGAAGATGTGCCTG
CTTCCCCTTCAACTTCCACCATGATTGTAAGTGTCTGAGGCCTCCAGCCATGCTTCTGTACAGCCTG
TGGAACTGTGACTTTTACATAGTAGAGAGAATGGCTTCAGTTATACCTGCCTCCAATAGGTCCATGAGA
TCTGACAGGAATACATATGTTGGAAAAAGGTTTGTTCACGTTAAAAATCCTTACTTGGATTTGATGGATG
AAGACATTCTCTATCACTTGGATTTGGGAACAAAAACACACAACCTACCAGCAATGTTTGGAGATGTAAA
GTTTGTCTGTGTCGGTGGGAGCCCAACAGAATGAAAGCATTTCGACTGTTTATGCACAAGGAGCTCGGG
TTTGAGGAAGCTGAAGAAGACATAAAAAGACATCTGTGCTGGGACAGACAGATACTGTATGTACAAAACCG
GGCCTGTGCTCGCCATCAGTCACGGCATGGGCATCCCCTCCATTTCTATTATGCTTCATGAACTCATCAA
ATTACTCCACCATGCACGGTGTGCGATGTCACCATATTAGAATCGGTACATCAGGGGGAATAGGGATT
GCACCAGGGACTGTTGTAATAACGGATATAGCTGTAGACTCCTTCTTTAAGCCCCGGTTTGAACAGGTCA
TTTTGGACAACATTGTCACCCGAAGTACTGAACTGGACAAAGAAGTCTGAAGAAGTGTCAACTGTAG
AAAGAAATCCCCAACTCCCAACCCTCGTTGGACATAACAATGTGTACCTATGATTTTTATGAAGGCCAA
GGCCGACTAGATGGAGCACTGTGCTCCTTTCCAGAGAAAAAAGTTAGACTACTTGAAGAGAGCATTTA
AAGCTGGTGTGAGGAATATTGAAATGGAATCTACAGTGTTCAGCTATGTGTGGACTCTGTGGTCTAAA
AGCTGCTGTGGTCTGTGTGACACTTCTCGACAGACTCGACTGTGATCAGATCAACTTGCCTCATGATGTC
CTGGTGGAGTACCAGCAACGGCCTCAGCTCCTAATCTCCAACCTCATCAGACGGCGGCTTGGACTTTGTG
AC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225573 representing NM_001135098
 Red=Cloning site Green=Tags(s)

MLAPGCELDPDQEVVVRTRPEDVPASPSTSTMIVSVLRPPSHASCTACGTVTFHIVERMASVIPASNRSMR
 SDRNTYVGKRFVHVKNPYLDLMDIEDILYHLDLGTHTNLPAMFGDVKFVCGGSPNRMKAFALFMHKELG
 FEEAEEDIKDICAGTDRYCMYKTGPVLAISHGMGIPISISIMLHELIKLLHARCCDVTIIRIGTSGGIGI
 APGTVVITDIAVDSFFKPRFEQVILDNIIVTRSTELDKELSEELFNCSKEIPNFPTLVGHTMCTYDFYEGQ
 GRLDGALCSFSREKKLDYLKRAFKAGVRNIEMESTVF AAMCGLCGLKAAVVCVTLLDRLDCDQINLPHDV
 LVEYQRPQLLISNFIRRRGLCD

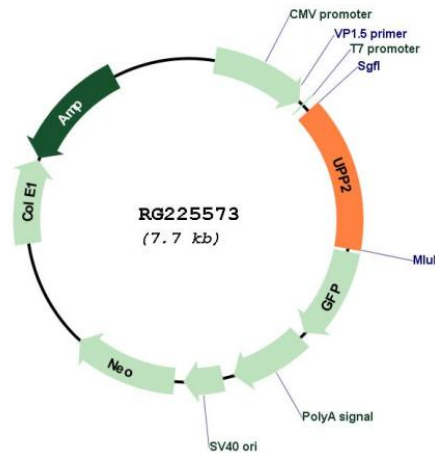
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001135098

ORF Size:	1122 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_001135098.1 , NP_001128570.1
RefSeq Size:	2410 bp
RefSeq ORF:	1125 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]