

Product datasheet for RC225573

UPP2 (NM_001135098) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UPP2 (NM_001135098) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UPP2
Synonyms:	UDRPASE2; UP2; UPASE2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC225573 representing NM_001135098 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTGGCCCCAGGCTGTGAGTTGGACCCAGACCAAGAAGTGGTGAGGACAAGGCCTGAAGATGTGCCTG
CTTCCCCTTCAACTCCACCATGATTGTAAGTGCCTGAGGCCTCCAGCCATGCTTCTGTACAGCCTG
TGGAACTGTGACTTTTCACATAGTAGAGAGAATGGCTTCAGTTATACCTGCCTCCAATAGGTCCATGAGA
TCTGACAGGAATACATATGTTGGAAAAAGTTTGTTCACGTTAAAAATCCTTACTTGGATTTGATGGATG
AAGACATTCTCTACTTGGATTTGGGAACAAAAACACACAACCTACCAGCAATGTTTGGAGATGTAAA
GTTTGTCTGTGTCGGTGGGAGCCCAACAGAATGAAAGCATTGCACTGTTTATGCACAAGGAGCTCGGG
TTTGAGGAAGCTGAAGAAGACATAAAAGACATCTGTGCTGGGACAGACAGATACTGTATGTACAAAACCG
GGCCTGTGCTCGCCATCAGTCACGGCATGGGCATCCCCTCCATTTCTATTATGCTTCATGAACATCAA
ATTACTCCACCATGCACGGTGTGCGATGTCACCATTATTAGAATCGGTACATCAGGGGGAATAGGGATT
GCACCAGGGACTGTTGTAATAACGGATATAGCTGTAGACTCCTTCTTTAAGCCCCGGTTTGAACAGGTCA
TTTTGGACAACATTGTCACCCGAAGTACTGAACCTGGACAAGAAGTCTGAAGAAGTCAACTGTAG
CAAAGAAATCCCCAACTTCCCAACCTCGTTGGACATACAATGTGTACCTATGATTTTTATGAAGGCCAA
GGCCGACTAGATGGAGCACTGTGCTCCTTTTCCAGAGAAAAAAGTTAGACTACTTGAAGAGAGCATTTA
AAGCTGGTGTGAGGAATATTGAAATGGAATCTACAGTGTTCAGCTATGTGTGGACTCTGTGGTCTAAA
AGCTGTGTTGTTGTTGACACTTCTCGACAGACTCGACTGTGATCAGATCAACTTGCCTCATGATGTC
CTGGTGGAGTACCAGCAACGGCCTCAGCTCCTAATCTCCAACCTCATCAGACGGCGGCTTGGACTTTGTG
AC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC225573 representing NM_001135098
 Red=Cloning site Green=Tags(s)

MLAPGCELDPDQEVVVRTRPEDVPASPSTSTMIVSVLRPPSHASCTACGTVTFHIVERMASVIPASNRSMR
 SDRNTYVGRKRFVHVKNPYLDLMDIEDILYHLDLGTKTHNLPAMFGDVKFCVGGSPNRMKAFALFMHKELG
 FEEAEEDIKDICAGTDRYCMYKTGPVLAISHGMGIPISISIMLHELIKLLHHARCCDVTIIRIGTSGGIGI
 APGTVVITDIAVDSFFKPRFEQVILDNIIVTRSTELDKELSEELFNCSKEIPNFPTLVGHTMCTYDFYEQ
 GRLDGALCSFSREKKLDYLKRAFKAGVRNIEMESTVFAAMCGLCGLKAAVVCVTLLDRLDCDQINLPHDV
 LVEYQRPQLLISNFIRRLGLCD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

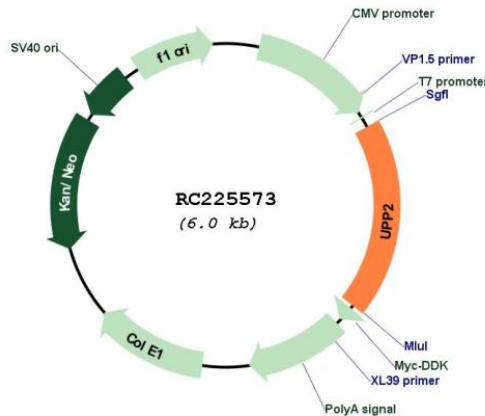
Restriction Sites:

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
MW:	41.6 kDa
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]