

## Product datasheet for **SC123316**

### UPP2 (NM\_173355) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UPP2 (NM_173355) Human Untagged Clone
Tag:	Tag Free
Symbol:	UPP2
Synonyms:	UDRPASE2; UP2; UPASE2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene sequence for NM_173355 edited
GGGACTTCACCAGTGTGCCATGCTGGCCCCAGGCTGTGAGTTGGACCCAGACCAAGAAG
TGGTGAGGACAAGGCCTGAAGATGTGCCTGCTTCCCATTCAACTTCCACCATGATTGTAA
GTGTCCTGAGGCCTCCCAGCCATGCTTCTGTACAGCCTGTGGAAGTGTGACTTTTACACA
TAGTAGAGAGAATGGCTTCAGTTATACCTGCCTCCAATAGGTCCATGAGATCTGACAGGA
ATACATATGTTGAAAAAGGTTTGTTCACGTTAAAAATCCTTACTTGGATTTGATGGATG
AAGACATTCTCTATCACTTGGATTTGGGAACAAAAACACACAACCTACCAGCAATGTTTG
GAGATGTAAGGTTTGTCTGTGTCGGTGGGAGCCCCAACAGAATGAAAGCATTTCACACTGT
TTATGCACAAGGAGCTCGGGTTTGAGGAAGCTGAAGAAGACATAAAAGACATCTGTGCTG
GGACAGACAGATACTGTATGTACAAAACCGGCCTGTGCTCGCCATCAGTCACGGCATGG
GCATCCCCCTCCATTTCTATTATGCTTCATGAACTCATCAAATTACTCCACCATGCACGGT
GCTGCGATGTCACCATTATTAGAATCGGTACATCAGGGGGAATAGGGATTGCACCAGGGA
CTGTTGTAATAACGGATATAGCTGTAGACTCCTTCTTTAAGCCCCGGTTTGAACAGGTCA
TTTTGGACAACATTGTCACCCGAAGTACTGAACTGGACAAGAAGTGTCTGAAGAAGTGT
TCAACTGTAGCAAAGAAATCCCCAACTTCCAACCTCGTTGGACATACAATGTGTACCT
ATGATTTTTATGAAGGCCAAGGCCGACTAGATGGAGCACTGTGCTCCTTTTCCAGAGAAA
AAAAGTTAGACTACTTGAAGAGAGCATTAAAGCTGGTGTGAGGAATATTGAAATGGAAT
CTACAGTGTGTCAGCTATGTGTGGACTCTGTGGTCTAAAAGCTGCTGTGGTCTGTGTGA
CACTTCTCGACAGACTCGACTGTGATCAGATCAACTTGCCTCATGATGTCCTGGTGGAGT
ACCAGCAACGGCCTCAGCTCCTAATCTCCAACCTCATCAGACGGCGGCTTGGACTTTGTG
ACTAGACGTCCTAACTGGGCAGCCCAACCTCCCCTGCAAGTTTGTAGCTCAAGTTGTAA
TGTGAAAGTCATATTTTATTTGTGGCATTATATATAGTTCTCATCCACATGCTAAATGG
AAAGACTTTATGAAATCCTTCTCTCTTAAAAAGGAATTTATTGTAAAAGAATACTCACAC
TAAATTAATTCAAATTTCAATTTAGAATAAGTTAACTAAATCAGTCTAATAATTAATAAT
TTTAAAACTCCTGGATTATGACATTTGGAGTTTCATATGCAGCATTAAATTAAGCTCACAT
CAAAATAGACCAGCCATTTGCACATAGTTACCAGTCACTCTGTTTCTGAAACCAATCCAG
AAATTCATGTTAGAACATTGTCAGGCACCTCTAGGTATTGGACAAGTACAGAAAAGTATG
CATCCATATTCAAAATATTTACAGAAAAAGTGTGAGTAAATGTAGGTCTATATGGAAA
AGTTACCATTAGGAAAATATGGCCATACTGCTTTTTTACCCTGCACTATTTTCAAGTGCAC
CACAGAATAGGATTCGAGATTTACATATGCCTGTTTGTGATTTTATCTCAGAATAAACA
ACTCTGGATTACATTTTCTCTCAACTGAAAACCTCAGTAATGCAAAGAAAGGCCTTCC
TTTTTCTCAGAATCACAAAGTACTAAATTCCTTCTAGCCATTTTTTCTGTAAAAAAA
GTGTTTTGAGGAGGCTGTATTTTTTATTCCATTTCAATATTAACCAAATAGGCTGAGAAA
TTCATAGCAATTGAATTAAGACTTGAGTTCAAGATGTTAAAGGAATCCTTTTGTATGACT
TGTCCAGACCGGCCTATTGCCCTACCCGTTTGATTCTCTGGGAGGCATGGTGTCTCCTCT
GGCTGCACATGCTCTGTGAACTGATCGCATCTTGGTTCTTCTCAATTTGACATACTT
GGGAGTCGGAATGACTGGATGGGGATGGGTAGAGGATGACTGGCACACTTGTATAGTAT
GTAATGTTGTGTACATATTTTATATGTTGTGGCTCAAATAAAGTTTAAATTCACAC
AAAAAAAAAAAAAAAA
    
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_173355 unedited GTTAGCATTGTAAACGACTCCTATAGGGCGGCCGATAACTTCGTATAGCATACATTAT ATGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGGCCGCGC GCACGGGTGAGTGCCAGGGACTTCACCAGTGTGCCATGCTGGCCCCAGGCTGTGAGTT GGACCCAGACCAAGAAGTGGTGAGGACAAGGCCTGAAGATGTGCCTGCTTCCCATTCAAC TTCCACCATGATTGTAAGTGTCTGAGGCCTCCCAGCCATGCTTCTGTACAGCCTGTGG AACTGTGACTTTTCACATAGTAGAGAGAATGGCTTCAGTTACCTGCCTCCAATAGGTC CATGAGATCTGACAGGAATACATATGTTGGAAAAGGTTTGTTCACGTTAAAAATCCTTA CTTGGATTTGATGGATGAAGACATTCTCTATCACTTGGATTTGGGAACAAAAACACAA CCTACCAGCAATGTTTGGAGATGTAAGTTTGTCTGTGTGCGTGGGAGCCCAACAGAAT GAAAGCATTGCACTGTTTATGCACAATGAGCTCGGGTTTGGGAAGCTGAAGAAGACAT AAAAGACATCTGTGCTGGGACAGACAGATACTGTATGTACAAAACCGGCCTGTGCTCGC CATCAGTCACGGCATGGGCATCCCCTGCATTTCTATTATGCTTCATGAACATCAAATT ACTCCACCATGCACGGTGTGCGATGTCACCATTATTATGATCGGTACATCANGGGGAAT AAGGATTGCACCAGGGACTGTTGTATTACCGATATAGCTGTAGACTCCTTCTTTAGCCCC GGTTTGAACAGTGCATTTTGGCAACATTGTCACCGGAGTACTGAACTGGACAAAGAAGT GCTGGAGGACTGGTCACTGGAGCAAAAAA
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_173355
<b>Insert Size:</b>	2261 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_173355.2</a> , <a href="#">NP_775491.1</a>
<b>RefSeq Size:</b>	2236 bp
<b>RefSeq ORF:</b>	954 bp
<b>Locus ID:</b>	151531
<b>UniProt ID:</b>	<a href="#">O95045</a>
<b>Cytogenetics:</b>	2q24.1
<b>Protein Pathways:</b>	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]

Transcript Variant: This variant (1) represents the longer transcript but encodes the shorter isoform (a).