

## Product datasheet for MR216616

### Upp1 (NM\_001159401) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Upp1 (NM_001159401) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Upp1
Synonyms:	AI325217; UdrPase; Up; UPase; Upp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR216616 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCAGCTACAGGAAGTGAAGCAAAGGACCTTGAAAACCATCACAATGACTGCTTCATCCAACCTTTCAA  
ATCCAACATAGCAGCAATGAAGGAAGACGTGCTCTACCATTTCAACCTCAGCACTAGCACACAGATTT  
CCCTGCTATGTTGGAGACGTGAAGTTTGTGTGTGTTGGTGAAGCTCTCCCGGATGAACACCTTCATC  
AAGTATGTGGCTGCAGAGCTGGCCTTGACCATCCAGGAAGGAATATCCAACATCTGTGCAGGCACTG  
ACCGCTACGCCATGTATAAAGCCGGGCCGTGCTGTGTGAGCCATGGCATGGGATTCCTTCCATCGG  
CATCATGTTGCAGGACTCATCAAGATGCTGTACCATGCCAGGTGCTCCAACATCACCATCATCCGATT  
GGCACTTCAGGCGGGATAGGTCTGGAGCCTGGCTCTGTTGTCATCACGCAGCAGGCACTGAATGAGTGT  
TCAAGCCGGAGTTTGAGCAGATTGCTCTGGGAAAACGGGTGATTCGCAACACCAACCTGGACGCGCAGCT  
GGTTCAGGAGTTGGTGCAGTGTCTCTCAGACCTGAATGAGTTCACCATGGTTGTGGGCAACACCATGTGC  
ACCTTGGACTTCTATGAGGGCAAGGCCGTCTGGATGGCGCCCTGTCTCTACACAGAGAAAGACAAAC  
AGTCTTATCTGCGTGCAGCCATGCCCGGGTGTCCGAAATATCGAGATGGAATCTTCGGTGTGGCCAC  
CATGTGCAGTGCCTGTGGCCTGAAAGCGGCTGTGGTGTGTGTACCCTTCTGGACCGTCTGCAAGGAGAC  
CAGATCAACACTCCCCACGATGTGCTTGTGGAATACCAGCAGAGACCACAGCGGCTAGTGGGCCACTTCA  
TCAAGAAGAGCCTGGGACGGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR216616 protein sequence  
Red=Cloning site Green=Tags(s)

MAATGTEAKDLENHHNDCF IQLSNPNI AAMKEDVLYHFNLSTSTHDFPAMFGDVKFVCGVSSSRMNTFI  
 KYVAAELGLDHPGKEYPNICAGTDRYAMYKAGPVL SVSHGMGIPSIGIMLHEL IKMLYHARCSNIT IIRI  
 GTSGGIGLEPGSVVITQQAVNECFKPEFEQIVLGKRVIRNTNLDAQLVQELVQCSSDLNEFPMVGNTMC  
 TLDFYEGQGRLDGALCSYTEKDKQSYLRAAHAAGVRNIEMESSVFATMCSACGLKAAVVCVTL DRLQGD  
 QINTPHDVLVEYQQRQRLVGHF IKKSLGRA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001159401

**ORF Size:** 936 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\\_001159401.1](#), [NP\\_001152873.1](#)

**RefSeq Size:** 1270 bp

**RefSeq ORF:** 936 bp

**Locus ID:** 22271

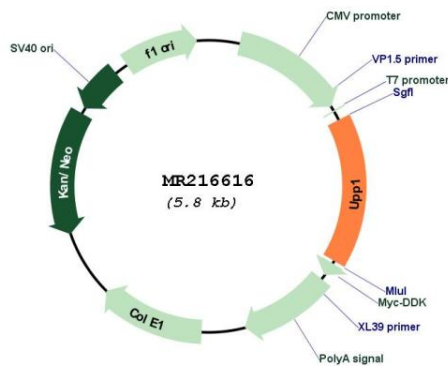
**UniProt ID:** [P52624](#)

**Cytogenetics:** 11 A1

**MW:** 34.1 kDa

**Gene Summary:** Catalyzes the reversible phosphorylytic cleavage of uridine and deoxyuridine to uracil and ribose- or deoxyribose-1-phosphate (PubMed:7744869). The produced molecules are then utilized as carbon and energy sources or in the rescue of pyrimidine bases for nucleotide synthesis.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR216616