

Product datasheet for MR218098

Upp1 (NM_009477) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Upp1 (NM_009477) 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:	>MR218098 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCAGCTACAGGAAGTGAAGCAAAGGACCTTGAAAACCATCACAATGACTGCTTCATCCAACCTTCAA
ATCCAACATAGCAGCAATGAAGGAAGACGTGCTCTACCATTTCAACCTCAGCACTAGCACACAGATT
CCCTGCTATGTTGGAGACGTGAAGTTTGTGTGTTGGTGAAGCTCTCCCGGATGAACACCTTCATC
AAGTATGTGGCTGCAGAGCTGGCCTTGACCATCCAGGAAGGAATATCCAACATCTGTGCAGGCACTG
ACCGCTACGCCATGTATAAAGCCGGGCCGTGCTGTGTGAGCCATGGCATGGGATTCTTCCATCGG
CATCATGTTGCAGAGCTCATCAAGATGCTGTACCATGCCAGGTGCTCCAACATCACCATCATCCGATT
GGCACTTCAGGCGGGATAGGCTCTGGAGCCTGGCTCTGTTGTCATCACGCAGCAGGCACTGAATGAGTGT
TCAAGCCGGAGTTTGAGCAGATTGCTCTGGGAAAACGGGTGATTTCGCAACACCAACCTGGACGCGCAGCT
GGTTCAGGAGTTGGTGCAGTGTCTCTCAGACCTGAATGAGTTCCCATGGTTGTGGGCAACACCATGTGC
ACCTTGGACTTCTATGAGGGCAAGGCCGTCTGGATGGCGCCCTGTCTCTACAGAGAAAGACAAAC
AGTCTTATCTGCGTGCAGCCATGCCCGGGTGTCCGAAATATCGAGATGGAATCTTCGGTGTGGCCAC
CATGTGCAGTGCCTGTGGCCTGAAAGCGGCTGTGGTGTGTGTACCCTTCTGGACCGTCTGCAAGGAGAC
CAGATCAACACTCCCCACGATGTGCTTGTGGAATACCAGCAGAGACCACAGCGGCTAGTGGGCCACTTCA
TCAAGAAGAGCCTGGGACGGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR218098 protein sequence
Red=Cloning site Green=Tags(s)

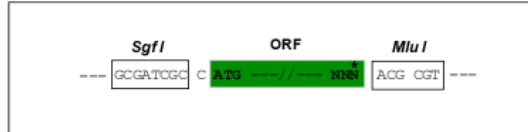
MAATGTEAKDLENHHNDCF IQLSNPNIAAMKEDVLYHFNLSTSTHDFPAMFGDVKFVCGVSSSRMNTFI
 KYVAAELGLDHPGKEYPNICAGTDRYAMYKAGPVL SVSHGMGIPSIGIMLHEL IKMLYHARCSNIT IIRI
 GTSGGIGLEPGSVVITQQAVNECFKPEFEQIVLGKRVIRNTNLDAQLVQELVQCSSDLNEFPMVGNTMC
 TLDFYEQGRLDGALCSYTEKDKQSYLRAAHAAGVRNIEMESSVFATMCSACGLKAAVVCVTL DRLQGD
 QINTPHDVLVEYQQRQRLVGHF 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_009477

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_009477.3](#), [NP_033503.2](#)

RefSeq Size: 1297 bp

RefSeq ORF: 936 bp

Locus ID: 22271

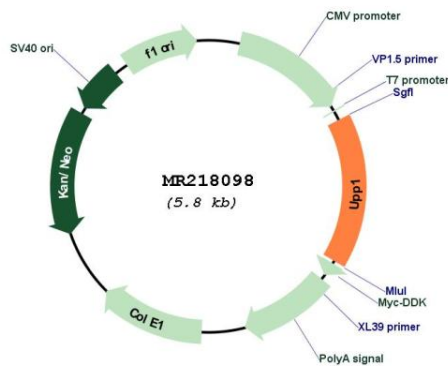
UniProt ID: [P52624](#)

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 MR218098