

Product datasheet for **MG217440**

Upp2 (NM_029692) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Upp2 (NM_029692) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Upp2
Synonyms:	1700124F02Rik; AI266885; UDRPASE2; UP2; UPASE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG217440 representing NM_029692 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCCATTTGCGCTGCTTCTAATAGATCCATGAGACCTGACAAGAATACATACGAGAGAAAACGGT
CTGTGTATGTTAAGAATCCATACCTGGAAGGCATGGACGAAGACATTCTCTATCACTTGGATTTAGGAAC
CAAAACACACAACCTACCAGCAATGTTTGGGGATGTAAGTTTGTCTGCGTTGGTGGGAGCCCGAACAGA
ATGAAGGCATTTGCACAGTTTATGCACAAGGAACTCCGGTTGGAGGGAGATGGAGAAGACATTGAAGACA
TCTGTGCGGGGACAGACAGATACTGCATGTTCAAACAGGCCCGTGCTCTCCGTCAGTCACGGGATGGG
CATCCCTCCATTTCCATTATGCTCCACGAACTCATCAAATTACTCCACCATGCACACTGCTGTGATGTT
ACCATCATCAGAATTGGAACGTCAGGGGGAATTGGGATTGCACCAGGCTCCGTTGTAATAACAGATACAG
CTGTAGACTCCTTCTCAAGCCTCGATTTGAGCAGGTCATCTTGGATAACGTGGTCACCCGAAGCACTGA
GCTTGACAAAGAAGTGGCTAATGATCTGTTCAACTGTAGCAGAGAAAATCCCAATGTTCCAACCTCATC
GGACACACGATGTGTACCTATGACTTTTATGAAGGCCAAGGTCGCTAGATGGGGCGTTATGCTCCTTTT
CGAGAGAGAAAAAGCTAGACTACTTGAAGAGAGCATACAGAGCTGGTGTGAGAACATTGAAATGGAATC
GACTGTGTTCCGAGCCATGTGTGGCCTGTGTGGCCTGAGAGCTGCTGTGGTCTGTGTGACACTTCTTGAC
AGACTCGAGAGTGACCAAATCAATTTGTCCCATGATGTCTGGTGGAGTACCAGCAACGGCCACAGCTTC
TAATCTCAAATTCATCAAAAAACAGCTTGGACTTTGTACCAGATGTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG217440 representing NM_029692
 Red=Cloning site Green=Tags(s)

MASILPASNRSMRPDKNTYERKRSVYVKNPYLEGMDDEDILYHLDLGTKTHNLPAMFGDVKFVCGGSPNR
 MKAFAQFMHKELRLEGDGEDIEDICAGTDRYCMFKTGPVLSVSHGMGIPISISIMLHELKLLHHAHCCDV
 TIIRIGTSGGIGIAPGSVVITDTAVDSFFKPRFEQVILDNVVTRSTELDKELANDLFNCSREIPNVPTLI
 GHTMCTYDFYEQGRLDGALCSFSREKKLDYLRAYRAGVRNIEMESTVF AAMCGLCGLRAAVCVTLTD
 RLESDQINL SHDVLVEYQQRPELLISNF IKKQLGLCDQMS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_029692

ORF Size: 960 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_029692.3](#), [NP_083968.1](#)

RefSeq Size: 1627 bp

RefSeq ORF: 963 bp

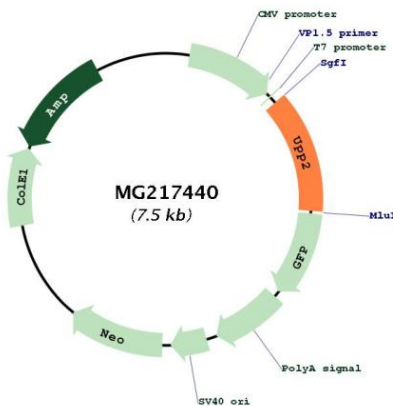
Locus ID: 76654

UniProt ID: [Q8CGR7](#)

Cytogenetics: 2 C1.1

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 (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG217440