

Product datasheet for **RG236272**

Uridine Phosphorylase 1 (UPP1) (NM_001287429) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Uridine Phosphorylase 1 (UPP1) (NM_001287429) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: UPP1
Synonyms: UDRPASE; UP; UPASE; UPP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236272 representing NM_001287429.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAGAGAAAGCTGAAAGTCACAAGTCTGGAGCCCGGCACTGTGGTCATAACAGAGCAGGCAGTGGAT
ACCTGCTTCAAGGCAGAGTTTGAGCAGATTGTCCTGGGAAGCGGGTCATCCGAAAACGGACCTTAAC
AAGAAGCTGGTGCAGGAGCTGTTGCTGTGTTCTGCAGAGCTGAGCGAGTTCACCACAGTGGTGGGAAC
ACCATGTGCACCTTGGACTTCTATGAAGGGCAAGCCGCTCTGGATGGGGCTCTGCTCCTACACGGAG
AAGGACAAGCAGGCGTATCTGGAGGCAGCCTATGCAGCCGGCGTCCGCAATATCGAGATGGAGTCCCTG
GTGTTTGGCGCCATGTGCAGCGCCTGCCGCTCCAAGCGCCGTGGTGTGTGTCCACCTCCTGAACCGC
CTGGAAGGGGACCAGATCAGCAGCCCTCGCAATGTGCTCAGCGAGTACCAGCAGAGGCCGACGCGGCTG
GTGAGCTACTTCAAGAAGAACTGAGCAAGGCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236272
Blue=ORF Red=Cloning site Green=Tag(s)

```
MQRKLVTSLEPGTVVITEQAVDTCFKAEFEQIVLGRVIRKTDLNKLVQELLLCSAELSEFTTVVGN
TMCTLDFYEGQGRLDGLCSYTEKDKQAYLEAAYAAGVRNIEMESSVFAAMCSACGLQAAVVCVTLNLR
LEGDQISSPRNVLSEYQQRQRLVSYFIKKLSKA
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-MluI

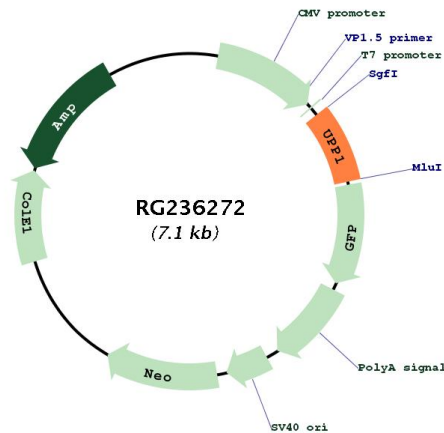


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001287429

ORF Size: 519 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).
RefSeq:	NM_001287429.2
RefSeq Size:	1413 bp
RefSeq ORF:	522 bp
Locus ID:	7378
UniProt ID:	Q16831
Cytogenetics:	7p12.3
Protein Pathways:	Drug metabolism - other enzymes, Metabolic pathways, Pyrimidine metabolism
MW:	19.7 kDa
Gene Summary:	This gene encodes a uridine phosphorylase, an enzyme that catalyzes the reversible phosphorylation of uridine (or 2'- deoxyuridine) to uracil and ribose-1-phosphate (or deoxyribose-1-phosphate). The encoded enzyme functions in the degradation and salvage of pyrimidine ribonucleosides. [provided by RefSeq, Oct 2016]