

Product datasheet for **RG219125**

Uridine Phosphorylase 1 (UPP1) (NM_181597) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Uridine Phosphorylase 1 (UPP1) (NM_181597) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Uridine Phosphorylase 1
Synonyms:	UDRPASE; UP; UPASE; UPP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219125 representing NM_181597 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCCACGGGAGCCAATGCAGAGAAAGCTGAAAGTCACAATGATTGCCCGTCAGACTTTTAAATC
CAAACATAGCAAAAATGAAAGAAGATATTCTCTATCATTTCATCTCACCCTAGCAGACACAATTTCCC
AGCCTTGGTGGAGATGTGAAGTTGTGTGTGTTGGTGAAGCCCTCCCGGATGAAAGCCTTCATCAGG
TGCCTGGTGCAGAGCTGGCCTTGACTGCCAGGTAGAGACTATCCCAACATCTGTGCGGGAAGTACC
GCTATGCCATGTATAAAGTAGGACCGGTGCTGTCTGTCTGTCAGTCATGGTATGGGCATTCCTTCTATCTCAAT
CATGTTGCATGAGCTCATAAAGCTGCTGTACTATGCCCGGTGCTCCAACGTCAGTATCATCCGCATTGGC
ACTTCTGGTGGGATAGGTCTGGAGCCCGGCACTGTGGTCATAACAGAGCAGGCAGTGGATACCTGCTTCA
AGGCAGAGTTTGAGCAGATTGCTCTGGGGAAGCGGGTCATCCGGAAAACGGACCTTAACAAGAAGCTGGT
GCAGGAGCTGTTGCTGTGTTCTGCAGAGCTGAGCGAGTTCACCACAGTGGTGGGGAACACCATGTGCACC
TTGGACTTCTATGAAGGGCAAGGCCGTCTGGATGGGGCTCTGCTCCTACACGGAGAAGGACAAGCAGG
CGTATCTGGAGGCAGCCTATGCAGCCGGCGTCCGCAATATCGAGATGGAGTCCCGGTGTTTGCCGCCAT
GTGCAGCGCCTGCGGCCCTCAAGCGGCCGTGGTGTGTGTACCCCTCCTGAACCGCCTGGAAGGGGACCAG
ATCAGCAGCCCTCGCAATGTGCTCAGCGAGTACCAGCAGAGGCCCGCAGCGGCTGGTGGAGTACTTCATCA
AGAAGAACTGAGCAAGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219125 representing NM_181597
 Red=Cloning site Green=Tags(s)

MAATGANAEKAESHNDPCVRLNPNIAKMKEDILYHFNL TTSRHNFPALFGDVKFVCVGGSPSRMKAFIR
 CVGAELGLDCPGRDYPNICAGTDRYAMYKVGVL SVSHGMGIPSI SIMLHEL IKLLYYARCSNVTIIRIG
 TSGGIGLEPGTVVITEQAVDTCFKAEFEQIVL GKRVIKRTDLNKKLVQELLLCSAELSEFTTVVGNMCT
 LDFYEQGRLDGALCSYTEKDKQAYLEAAYAAGVRNIEMESSVFAAMCSACGLQAAVVCVTLNLRLEGDQ
 ISSPRNVLSEYQQRPLVSYFIKKKLSKA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181597

ORF Size: 930 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_181597.1](#), [NP_853628.1](#)

RefSeq Size: 1857 bp

RefSeq ORF: 932 bp

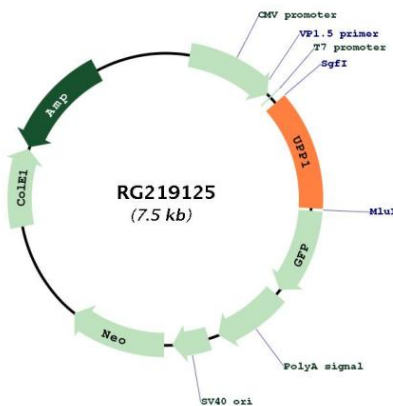
Locus ID: 7378

Cytogenetics: 7p12.3

Protein Pathways: Drug metabolism - other enzymes, Metabolic pathways, Pyrimidine metabolism

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]

Product images:



Circular map for RG219125