

Product datasheet for **RG205030**

UPRT (NM_145052) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UPRT (NM_145052) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UPRT
Synonyms:	FUR1; UPP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205030 representing NM_145052 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCACGGAGTTACAGTGTCCGGACTCCATGCCCTGTCACAACCAGCAAGTAACTCTGCCTCAACCC
CAAGTCCCAGCAGCTGCGACCTGGCGATCTGATCCTGGACCACGCAGGGGAAACAGAGCCTCCAGGGC
CAAGGTGATTCTCCTCACGGGTACGCCATTCTAGCCTGCCGGCCGAGCTGGACTCTGGGGCTGCGGC
GGCTCCAGCCTCAACTCAGAGGGCAACAGTGGTAGTGGTACAGTAGCAGCTATGACGCACCAGCTGGCA
ACTCCTTCTAGAGGACTGCGAACTCTCCGGCAGATCGGGCGCAGCTTAAGCTGCTGCCTATGAATGA
TCAGATACGGGAGCTACAGACCATCCGGGACAAGACAGCCAGTAGAGGTGACTTCATGTTTTCTGCG
GATCGTTTGATCAGACTTGTGTGGAAGAGGGATTGAATCAGCTGCCATATAAAGAATGCATGGTGACCA
CTCCAACAGGGTACAAGTATGAAGGAGTAAAATTTGAGAAGGGAAATTTGGGGTCCAGCATAATGAGAAG
CGGTGAGGCAATGGAACAAGGTTTACGAGACTGCTGTCGATCCATACGAATTGGAAAAGTCTCGATTGAG
AGTGATGAGGAGACAAAAGAGCCAAAGTATATTATGCCAAATCCCCCAGACATTTACCGGAGAAAAG
TCCTTCTGATGTATCCAATTCTCAGCACTGAAATACTGTAATTGAAGCTGTAAGGTTCTTATAGAACA
TGGAGTTCAACCCAGTGTATCATCCTACTCAGTCTGTTCTCCACTCCTCATGGTGCCAAATCAATCATT
CAGGAGTTTCCAGAGATCACAATTTTAACTACTGAAGTTCATCCTGTTGCACCTACACATTTGGACAGA
AATACTTTGGAACAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205030 representing NM_145052
 Red=Cloning site Green=Tags(s)

MATELQCPDSMPCHNQVNSASTPSPEQLRPGDLILDHAGGNRASRAKVILLTGYAHSSLPALDSDGACG
 GSSLNSEGNSGSDSSSYDAPAGNSFLEDCELSRQIGAQLKLLPMNDQIRELQTIIRDKTASRGDFMFA
 DRLIRLVVEEGLNQLPYKECMVTTPTYGYEYGVKFEKGNCGVSVIMRSGEAMEQGLRDCCRSIRIGKILIQ
 SDEETQRAKVYYAKFPDIIYRRKVLMLYPILSTGNTVIEAVKVLIEHGVQPSVIILLSLFSTPHGAKSII
 QEFPEITILTTEVHPVAPTHFGQKYFGTD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145052

ORF Size: 927 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_145052.2](#)

RefSeq Size: 2179 bp

RefSeq ORF: 930 bp

Locus ID: 139596

UniProt ID: [Q96BW1](#)

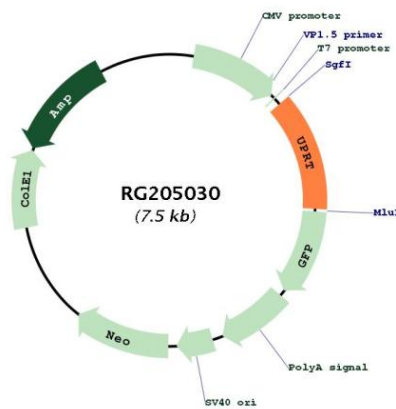
Cytogenetics: Xq13.3

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Pyrimidine metabolism

Gene Summary: This gene encodes uracil phosphoribosyltransferase, which catalyzes the conversion of uracil and 5-phosphoribosyl-1-R-diphosphate to uridine monophosphate (UMP). This reaction is an important part of nucleotide metabolism, specifically the pyrimidine salvage pathway. The enzyme localizes to the nucleus and cytoplasm. The protein is a potential target for rational design of drugs to treat parasitic infections and cancer. [provided by RefSeq, Nov 2009]

Product images:



Circular map for RG205030