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Product datasheet for RC205030

UPRT (NM_145052) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UPRT (NM_145052) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UPRT
Synonyms:	FUR1; UPP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC205030 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCACGGAGTTACAGTGTCCGGACTCCATGCCCTGTCACAACCAGCAAGTAAACTCTGCCTCAACCC
CAAGTCCCGAGCAGCTGCGACCTGGCGATCTGATCCTGGACCACGCAGGGGGAAACAGAGCCTCCAGGGC
CAAGGTGATTCTCCTCACGGGGTACGCCCATTCTAGCCTGCCGGCCGAGCTGGACTCTGGGGCCTGCGGC
GGCTCCAGCCTCAACTCAGAGGGCAACAGTGGTAGTGGTGACAGTAGCAGCTATGACGCACCAGCTGGCA
ACTCCTTCCTAGAGGACTGCGAACTCTCCCGGCAGATCGGGGCGCAGCTTAAGCTGCTGCCTATGAATGA
TCAGATACGGGAGCTACAGACCATCATCCGGGACAAGACAGCCAGTAGAGGTGACTTCATGTTTTCTGCG
GATCGTTTGATCAGACTTGTTGTGGAAGAGGGATTGAATCAGCTGCCATATAAAGAATGCATGGTGACCA
CTCCAACAGGGTACAAGTATGAAGGAGTGAAATTTGAGAAGGGAAATTGTGGGGTCAGCATAATGAGAAG
CGGTGAGGCAATGGAACAAGGTTTACGAGACTGCTGTCGATCCATACGAATTGGAAAGATCCTGATTCAG
AGTGATGAGGAGACACAAAGAGCCAAAGTATATTATGCCAAATTCCCCCCAGACATTTACCGGAGAAAAG
TCCTTCTGATGTATCCAATTCTCAGCACTGGAAATACTGTAATTGAAGCTGTAAAGGTTCTTATAGAACA
TGGAGTTCAACCCAGTGTTATCATCCTACTCAGTCTGTTCTCCACTCCTCATGGTGCCAAATCAATCATT
CAGGAGTTTCCAGAGATCACAATTTTAACTACTGAAGTTCATCCTGTTGCACCTACACATTTTGGACAGA
AATACTTTGGAACAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC205030 protein sequence
Red=Cloning site Green=Tags(s)

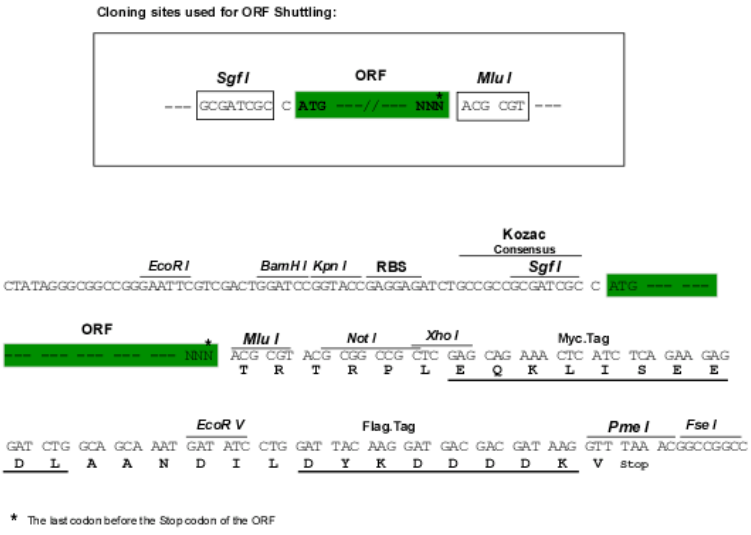
MATELQCPDSMPCHNQQVNSASTPSPEQLRPGDLILDHAGGNRASRAKVILLTGYAHSSLPAELDSGACG
GSSLNSEGNSGSGDSSSYDAPAGNSFLEDCELSRQIGAQLKLLPMNDQIRELQTIIRDKTASRGDFMFSA
DRLIRLVVEEGLNQLPYKECMVTTPTGYKYEGVKFEKGNCGVSIMRSGEAMEQGLRDCCRSIRIGKILIQ
SDEETQRAKVYYAKFPPDIYRRKVLLMYPILSTGNTVIEAVKVLIEHGVQPSVIILLSLFSTPHGAKSII
QEFPEITILTTEVHPVAPTHFGQKYFGTD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6421_c06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145052

ORF Size: 927 bp

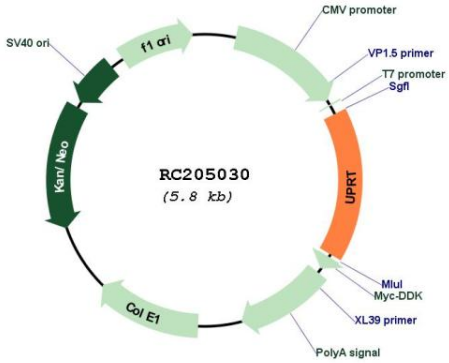
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

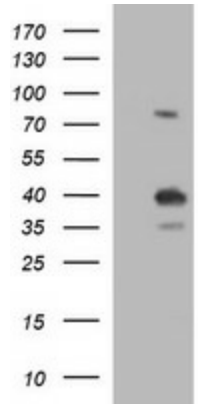
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_145052.2
RefSeq Size:	2512 bp
RefSeq ORF:	930 bp
Locus ID:	139596
UniProt ID:	Q96BW1
Cytogenetics:	Xq13.3
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Pyrimidine metabolism
MW:	33.8 kDa
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]

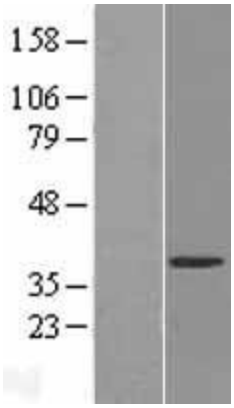
Product images:



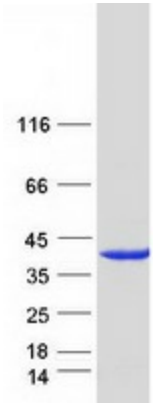
Circular map for RC205030



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY UPRT (Cat# RC205030, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-UPRT(Cat# [TA506874]). Positive lysates [LY408068] (100ug) and [LC408068] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY408068]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205030 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UPRT protein (Cat# [TP305030]). The protein was produced from HEK293T cells transfected with UPRT cDNA clone (Cat# RC205030) using MegaTran 2.0 (Cat# [TT210002]).