

## Product datasheet for RC200385

### UROS (NM\_000375) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UROS (NM_000375) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UROS
Synonyms:	UROIIIS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200385 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGGTTCTTTACTGAAGGATGCGAAGGAAGATGACTGTGGCCAGGATCCGTATATCAGGGAATTAG  
GATTATATGGACTTGAAGCCACTTTGATCCCTGTTTTATCGTTTGAGTTTTGTCTCTCCAGTTTCTC  
TGAGAAGCTTTCTCATCCTGAAGATTACGGGGACTCATTTTTACCAGCCCCAGAGCAGTGAAGCAGCA  
GAGTTATGTTGGAGCAAAACAATAAACTGAAGTCTGGGAAAGGTCTCTGAAAGAAAAATGGAATGCCA  
AGTCAGTGTATGTGGTTGAAATGCTACTGCTTCTCTAGTGAGTAAAATTGGCCTGGATACAGAAGGAGA  
AACCTGTGAAATGCAGAAAAGCTTGCAGAAATATATTTGTTCCAGGGAGTCTCAGCACTGCCTCTTCTA  
TTTCCCTGTGAAACCTCAAAGAGAAATCCTGCCAAAAGCGCTCAAGGACAAAGGGATTGCCATGGAAA  
GCATAACTGTGTATCAGACAGTTGCACACCCAGGAATCCAAGGGAACCTGAACAGCTACTATTTCCAGCA  
GGGGTTCCAGCCAGCATCACATTTTTAGTCCCTCTGGCCTCACATACAGTCTCAAGCACATTCAGGAG  
TTATCTGGTGACAATATCGATCAAATTAAGTTTGAGCCATCGGCCCACTACGGCTCGCGCGCTGGCCG  
CCCAGGGCCTTCTGTAAGCTGCACTGCAGAGAGCCCCACGCCACAAGCCCTGGCCACTGGCATCAGGAA  
GGCTCTCCAGCCCCATGGCTGCTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC200385 protein sequence  
 Red=Cloning site Green=Tags(s)

MKVLLLLKDAKEDDCGQDPYIRELGLYGLEATLIPVLSFEFLSLPSFSEKLSHPEDYGGIIFTSPRAVEAA  
 ELCLEQNNKTEVWERSLKEKWNKSVYVVG NATASLVSKI GLDTEGETCGNAEKLAEYICSRRESSALPLL  
 FPCGNLKR EILPKALKDKGIAMESITVYQTV AHPGIQGNLNSYYSQQGVPASITFFSPSGLTYS LKHIQE  
 LSGDNIDQIKFAAIGPTTARALAAQGLPV SCTAESPTPQALATGIRKALQPHGCC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6386\\_e02.zip](https://cdn.origene.com/chromatograms/mk6386_e02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_000375

**ORF Size:** 795 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\\_000375.3](#)

**RefSeq Size:** 1371 bp

**RefSeq ORF:** 798 bp

**Locus ID:** 7390

**UniProt ID:** [P10746](#)

**Cytogenetics:** 10q26.2

**Domains:** HEM4

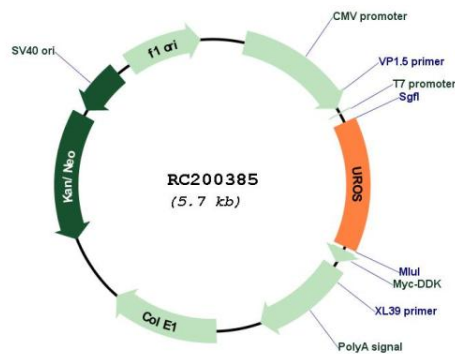
**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Porphyrin and chlorophyll metabolism

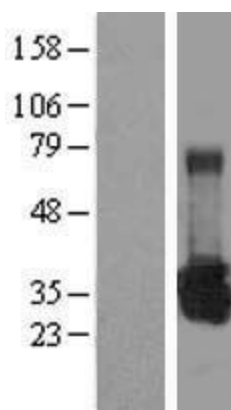
**MW:** 28.6 kDa

**Gene Summary:** The protein encoded by this gene catalyzes the fourth step of porphyrin biosynthesis in the heme biosynthetic pathway. Defects in this gene cause congenital erythropoietic porphyria (Gunther's disease). [provided by RefSeq, Jul 2008]

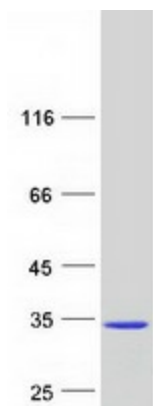
### Product images:



Circular map for RC200385



Western blot validation of overexpression lysate (Cat# [LY424759]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200385 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UROS protein (Cat# [TP300385]). The protein was produced from HEK293T cells transfected with UROS cDNA clone (Cat# RC200385) using MegaTran 2.0 (Cat# [TT210002]).