

Product datasheet for RC200529

UROD (NM_000374) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UROD (NM_000374) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UROD
Synonyms:	PCT; UPD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200529 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGCGAATGGGTTGGGACCTCAGGGTTTTCCGGAGCTGAAGAATGACACATTCCTGCGAGCAGCCT
GGGGAGAGGAAACAGACTACACTCCCGTTTGGTGCATGCGCCAGGCAGGCCGTTACTTACCAGAGTTTAG
GGAAACCCGGGCTGCCAGGACTTTTTCCAGCACGTGTCGCTCTCCTGAGGCCTGCTGTGAAGTACTCTG
CAGCCACTGCGTCGTTCCCTCTGGATGCTGCCATCATTTCTCCGACATCCTTGTGTACCCAGGCAC
TGGGCATGGAGGTGACCATGGTACCTGGCAAAGGACCCAGCTTCCAGAGCCATTAAGAGAAGAGCAGGA
CCTAGAACGCCTACGGGATCCAGAAGTGGTAGCCTCTGAGCTAGGCTATGTGTTCCAAGCCATCACCTT
ACCCGACAACGACTGGCTGGACGTGTGCCGCTGATTGGCTTTGCTGGTGGCCCATGGACCCTGATGACAT
ACATGGTTGAGGGTGGTGGCTCAAGCACCATGGCTCAGGCCAAGCGCTGGCTCTATCAGAGACCTCAGGC
TAGTCACCAGCTGCTTCGCATCCTCACTGATGCTCTGGTCCCATATCTGGTAGGACAAGTGGTGGCTGGT
GCCAGGCATTGCAGCTGTTTGGTCCCATGCAGGGCATCTTGGCCACAGCTCTTCAACAAGTTTGAC
TGCTTACATCCGTGATGTGGCCAAGCAAGTGAAGGCCAGGTTGGGGAGGCAGGCCTGGCACCAGTGCC
CATGATCATCTTTGCTAAGGATGGGCATTTTGCCTGGAGGAGCTGGCCAAAGCTGGCTATGAGGTGGTT
GGGCTTGACTGGACAGTGGCCCAAGAAAGCCCGGAGTGTGTGGGAAGACCGTGACATTGCAGGTCA
ACCTGGACCCCTGTGCCTTGTATGCATCTGAGGAGGAGATCGGGCAGTTGGTGAAGCAGATGCTGGATGA
CTTTGGACCACATCGCTACATTGCCAACCTGGGCCATGGCTTTATCCTGACATGGACCCAGAACATGTG
GGCGCTTTGTGGATGCTGTGCATAAACTCACGCTCTGCTTCGACAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_000374.5](#)

RefSeq Size: 1408 bp

RefSeq ORF: 1104 bp

Locus ID: 7389

UniProt ID: [P06132](#)

Cytogenetics: 1p34.1

Domains: URO-D

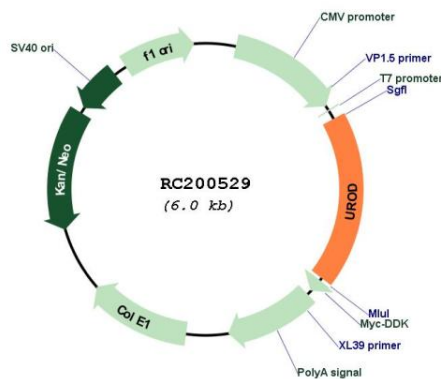
Protein Families: Druggable Genome

Protein Pathways: Porphyrin and chlorophyll metabolism

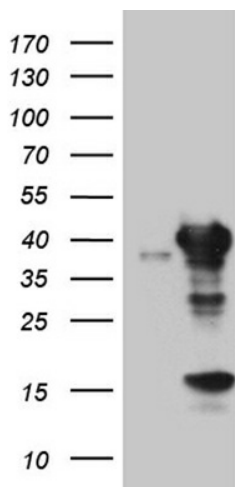
MW: 40.8 kDa

Gene Summary: This gene encodes an enzyme in the heme biosynthetic pathway. This enzyme is responsible for catalyzing the conversion of uroporphyrinogen to coproporphyrinogen through the removal of four carboxymethyl side chains. Mutations and deficiency in this enzyme are known to cause familial porphyria cutanea tarda and hepatoerythropoetic porphyria. [provided by RefSeq, Aug 2010]

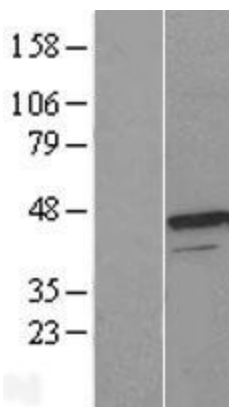
Product images:



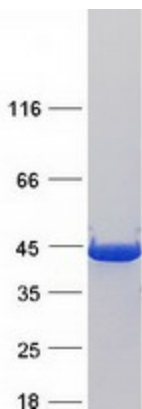
Circular map for RC200529



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY UROD (Cat# RC200529, 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-UROD (Cat# [TA810089])(1:2000). Positive lysates [LY424758] (100ug) and [LC424758] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY424758]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200529 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UROD protein (Cat# [TP300529]). The protein was produced from HEK293T cells transfected with UROD cDNA clone (Cat# RC200529) using MegaTran 2.0 (Cat# [TT210002]).