

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
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC200529 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAAGCGAATGGGTTGGGACCTCAGGGTTTTCCGGAGCTGAAGAATGACACATTCTGCGAGCAGCCT
GGGGAGAGGAAACAGACTACACTCCCGTTTGGTGCATGCGCCAGGCAGGCCGTTACTTACCAGAGTTT
GGAAACCCGGGCTGCCAGGACTTTTTTCAGCACGTGTCGCTCTCCTGAGGCCTGTGTGAAGTACTCTG
CAGCCACTGCGTCGCTTCCCTCTGGATGCTGCCATCATTCTCCGACATCCTTGTGTACCCAGGCAC
TGGGCATGGAGGTGACCATGGTACCTGGCAAAGGACCCAGCTTCCAGAGCCATTAAGAGAAGAGCAGGA
CCTAGAACGCCTACGGGATCCAGAAGTGGTAGCCTCTGAGCTAGGCTATGTGTTCCAAGCCATCACCCCT
ACCCGACAACGACTGGCTGGACGTGTGCCGCTGATTGGCTTTGCTGGTGCCTTGGACCCATGGACCCTGATGACAT
ACATGGTTGAGGGTGGTGGCTCAAGCACCATGGCTCAGGCCAAGCGCTGGCTCTATCAGAGACCTCAGGC
TAGTCACCAGCTGCTTCGCATCCTCACTGATGCTCTGGTCCCATATCTGGTAGGACAAGTGGTGGCTGGT
GCCCAGGCATTGCAGCTGTTGAGTCCCATGCAGGCATCTTGGCCACAGCTCTTCAACAAGTTTGCAC
TGCTTACATCCGTGATGTGCCAAGCAAGTGAAGGCCAGGTTGCGGGAGGCAGGCCTGGCACCAGTGCC
CATGATCATCTTTGCTAAGGATGGCATTGTCCTGGAGGAGCTGGCCCAAGCTGGCTATGAGGTGGTT
GGGCTTGACTGGACAGTGGCCCCAAAGAAAGCCCGGGAGTGTGTGGGAAGACGGTGACATTGCAGGTCA
ACCTGGACCCCTGTGCCTTGTATGCATCTGAGGAGGAGATCGGGCAGTTGGTGAAGCAGATGCTGGATGA
CTTTGGACCACATCGCTACATTGCCAACCTGGGCCATGGGCTTTATCCTGACATGGACCCAGAACATGTG
GGCGCTTTGTGGATGCTGTGCATAAACACTCACGTCTGCTTCGACAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC200529 protein sequence
 Red=Cloning site Green=Tags(s)

MEANGLGPQGFPPELKNDTFLRAAWGEETDYTPVWCMRQAGRYLPEFRETRAQQDFSTCRSPEACCELTL
 QPLRRFPLDAAIIFSDILVVPQALGMEVTMVPKGPSPPEPLREEQDLERLRDPEVVASELGYVFQAITL
 TRQRLAGRVPLIGFAGAPWTLMTYMVEGGSSMAQAKRWLYQRPQASHQLLRILTALVPYLVGQVVAG
 AQALQLFESHAGHLGPQLFNKFALPYIRDYAKQVKARLREAGLAPVPMIIFAKDGHFALEELAQAQYEVV
 GLDWTVAPKARECVGKTVTLQVNLDPICALYASEEEIGQLVKQMLDDFGPHRYIANLGHGLYPDMDPEHV
 GAFVDAVHKHSRLLRQN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

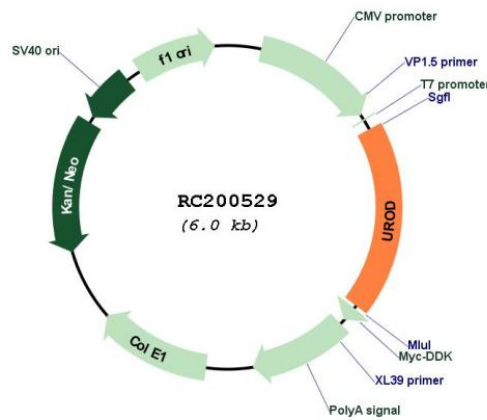
Chromatograms: https://cdn.origene.com/chromatograms/mk6407_f11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

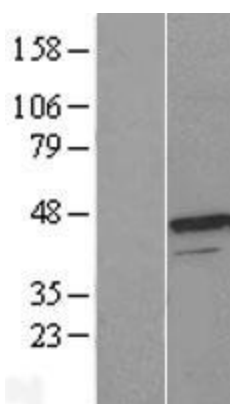


Plasmid Map:

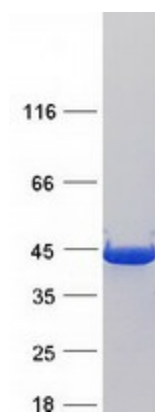


ACCN:	NM_000374
ORF Size:	1101 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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.
RefSeq:	NM_000374.1 , NM_000374.2 , NM_000374.3 , NM_000374.4 , NP_000365.3
RefSeq Size:	1408 bp
RefSeq ORF:	1104 bp
Locus ID:	7389
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:



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]).