

Product datasheet for **RG200529**

UROD (NM_000374) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UROD (NM_000374) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UROD
Synonyms:	PCT; UPD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200529 representing NM_000374 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGCGAATGGGTTGGGACCTCAGGGTTTTCCGGAGCTGAAGAATGACACATTCCTGCGAGCAGCCT
GGGGAGAGGAAACAGACTACACTCCCGTTTGGTGCATGCGCCAGGCAGGCCGTTACTTACCAGAGTTTAG
GGAAACCCGGGCTGCCAGGACTTTTTCCAGCACGTGTCGCTCTCCTGAGGCCTGCTGTGAAGTACTCTG
CAGCCACTGCGTCGTTCCCTCTGGATGCTGCCATCATTTCTCCGACATCCTTGTGTACCCAGGCAC
TGGGCATGGAGGTGACCATGGTACCTGGCAAAGGACCCAGCTTCCAGAGCCATTAAGAGAAGAGCAGGA
CCTAGAACGCCTACGGGATCCAGAAGTGGTAGCCTCTGAGCTAGGCTATGTGTTCCAAGCCATCACCCCT
ACCCGACAACGACTGGCTGGACGTGTGCCGCTGATTGGCTTTGCTGGTGGCCCATGGACCCTGATGACAT
ACATGGTTGAGGGTGGTGGCTCAAGCACCATGGCTCAGGCCAAGCGCTGGCTCTATCAGAGACCTCAGGC
TAGTCACCAGCTGCTTCGCATCCTCACTGATGCTCTGGTCCCATATCTGGTAGGACAAGTGGTGGCTGGT
GCCAGGCATTGCAGCTGTTTGGTCCCATGCAGGGCATCTTGGCCACAGCTCTCAACAAGTTTGCAC
TGCTTACATCCGTGATGTGGCCAAGCAAGTGAAGGCCAGGTTGGGGAGGCAGGCCTGGCACCAGTGCC
CATGATCATCTTTGCTAAGGATGGGCATTTTGCCTGGAGGAGCTGGCCAAAGCTGGCTATGAGGTGGTT
GGGCTTGACTGGACAGTGGCCCAAGAAAGCCCGGAGTGTGTGGGAAGACCGTGACATTGCAGGTCA
ACCTGGACCCCTGTGCCTTGTATGCATCTGAGGAGGAGATCGGGCAGTTGGTGAAGCAGATGCTGGATGA
CTTTGGACCACATCGCTACATTGCCAACCTGGCCATGGGCTTTATCCTGACATGGACCCAGAACATGTG
GGCGCCTTTGGATGCTGTGCATAAACTCACGCTCTGCTTCGACAGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200529 representing NM_000374
 Red=Cloning site Green=Tags(s)

```
MEANGLGPQGFPPELKNDTFLRAAWGEETDYTPVWCMRQAGRYLPEFRETRAQAQDFSTCRSPEACCELTL
QPLRRFPLDAAIIFSDILVVPQALGMEVTMVPKGPSPFPEPLREEQDLERLRDPEVVASELGYVFAQITL
TRQRLAGRVPPLIGFAGAPWTLMTYMVEGGSSSTMAQAKRWLYQRPQASHQLLRILTDALVPYLVGQVVAG
AQALQLFESHAGHLGPQLFNKFAALPYIRDYAKQVKARLREAGLAPVPMIIFAKDGHFALEELAQAQYEVV
GLDWTVAPKKARECVGKTVTLQVNLDPICALYASEEEIGQLVKQLDDFGPHRYIANLGHGLYPDMDPEHV
GAFVDAVHKHSRLLRQN
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

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_000374.3](#), [NP_000365.3](#)

RefSeq Size: 1383 bp

RefSeq ORF: 1104 bp

Locus ID: 7389

UniProt ID: [P06132](#)

Cytogenetics: 1p34.1

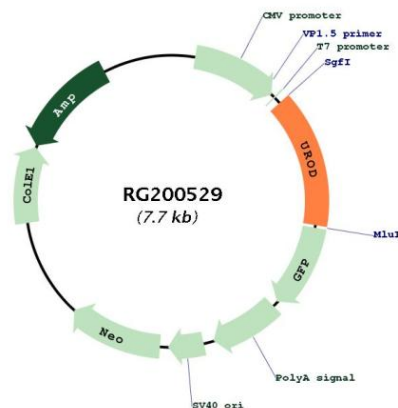
Domains: URO-D

Protein Families: Druggable Genome

Protein Pathways: Porphyrin and chlorophyll metabolism

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 RG200529