

## Product datasheet for **RG239282**

### Uromuroid (UMOD) (NM\_001278614) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Uromuroid (UMOD) (NM_001278614) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Uromuroid
Synonyms:	ADMCKD2; ADTKD1; FJHN; HNFJ; HNFJ1; MCKD2; THGP; THP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG239282 representing NM\_001278614.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGGGCAGCCATCTCTGACTTGGATGCTGATGGTGGTGGCCTCTTGGTTCATCACAACCTGCAGCC
ACTGACACCTCAGAAGCAAGAACAAGTACAACCTGCCAGCCAGGTGGAGTTGGAGGACTCCGCAGAGA
GGAGGCGACACTGAGCAGGGTCTGATGAAGATTTACCAGCCAGGGAAGATGGTCTCTGAATGTCAC
AGCAATGCCACCTGCACGGAGGATGAGGCCGTTACGACGTGCACCTGTCAGGAGGGCTTACCAGCGAT
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AGTGGGAGTGTCATAGATCAATCCCGTGTCTGAACTTGGGTCCCATCACACGAAAGGTGTCCAGGCC
ACAGTCTCAAGGGCTTTTAGCAGCTTGGGGCTCCTGAAAGTCTGGCTGCCTCTGCTTCTCTCGGCCACC
TTGACCCTGACTTTTCAG
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
```

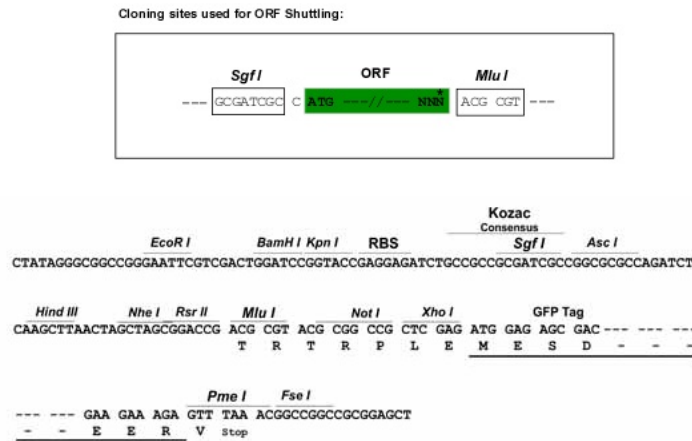
**Protein Sequence:** >Peptide sequence encoded by RG239282  
 Blue=ORF Red=Cloning site Green=Tag(s)

```

MGQPSLTWMLMVVVASWFITTAATDTSEARTKYNCPARWSWRTPQRGGDTEQGPDEDFTSQGRWCSECH
SNATCTEDEAVTTCTCQEGFTGDGLTCVDLDECAIPGAHNCSANSSCVNTPGSFSCVCPEGFRLSPGLG
CTDVDECAEPLSHCHALATCVNVVGSYLCVCPAGYRGDWHCECSPGSCGPLDCVPEGDALVCADPC
QAHRTLDEYWRSTEYEGEYACDTRLRGWYRFVQGQGARMAETCVPVLRNCNTAAPMWLNGTHPSSDEGIV
SRKACAHWSGHCLWDASVQVKACAGGYVYVNLTAPECHLAYCTDPSSVEGTCEECSIDEDCKSNNGR
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TPARDGPGCVLTRNETHATYSNTLYLADEIIIRDNLNIKINFACSYPLDMKVSLKALQPMVSALNIRV
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YFIIQDRCPHTRDSTIQVVENGESSQGRFSVQMFRFAGNYDLVYLHCEVYLCDTMNECKKPTCSGTRFR
SGSVIDQSRVNLGPITRKGQVATVSRAFSSLLGLLKVWLP LLLSATLTLTFQ
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
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```

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001278614

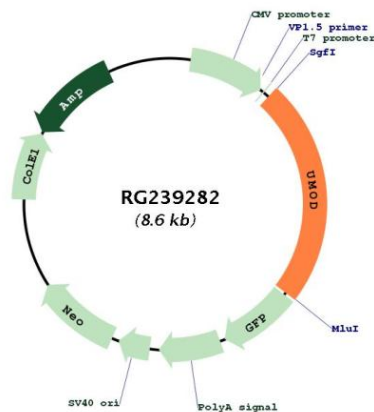
**ORF Size:** 2019 bp

**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.

<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001278614.2</a>
<b>RefSeq Size:</b>	2589 bp
<b>RefSeq ORF:</b>	2022 bp
<b>Locus ID:</b>	7369
<b>UniProt ID:</b>	<a href="#">P07911</a>
<b>Cytogenetics:</b>	16p12.3
<b>MW:</b>	74 kDa
<b>Gene Summary:</b>	The protein encoded by this gene is the most abundant protein in mammalian urine under physiological conditions. Its excretion in urine follows proteolytic cleavage of the ectodomain of its glycosyl phosphatidylinositol-anchored counterpart that is situated on the luminal cell surface of the loop of Henle. This protein may act as a constitutive inhibitor of calcium crystallization in renal fluids. Excretion of this protein in urine may provide defense against urinary tract infections caused by uropathogenic bacteria. Defects in this gene are associated with the renal disorders medullary cystic kidney disease-2 (MCKD2), glomerulocystic kidney disease with hyperuricemia and isosthenuria (GCKDHI), and familial juvenile hyperuricemic nephropathy (FJHN). Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jul 2013]

**Product images:**



Circular map for RG239282