

## Product datasheet for **MC228557**

### Umod (NM\_001278605) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Umod (NM_001278605) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Umod
Synonyms:	THP; ureh; Urehd; Urehd1; urehr4; uromu
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228557 representing NM\_001278605  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGATCCCTTTGACCTGGATGCTGCTGGTAATGATGGTAACCTCCTGGTTCCTGCTGGAAGCCA  
 GTAACCTAACAGAAGCGAGACGGTGTCTGAATGCCACAACAACGCCACCTGCACGGTGGATGGTGTGGT  
 CACAACGTGCTCCTGCCAGACCGCTTCACTGGTATGGGCTGGTGTGTGAGGACATGGATGAGTGTGCT  
 ACCCCATGGACTCACAACCTGCTCCAACAGCAGCTGTGTGAACACCCCGGGCTCGTTAAAGTCTCTGTG  
 AGGATGGTTTTCTGCTGACGCCTGAGCTGAGCTGCACTGATGTGGATGAGTGTGCTCAGAGCAGGGGCTCAG  
 TAACTGTCATGCCCTGGCCACCTGTGTCAACACAGAAGGGGACTACTTGTGCGTGTGTCCCGAGGGCTTT  
 ACAGGGGATGGTTGGTACTGTGAGTGTCTCCAGGCTCCTGTGAGCCAGGACTGGACTGCTTGCCCCAGG  
 GCCCGGATGGAAGCTGGTGTGTCAAGACCCCTGCAATACATATGAGACCCTGACTGAGTACTGGCGCAG  
 CACAGAGTATGGTGTGGGCTACTCCTGTGACGCGGGTCTGCACGGCTGGTACCGTTTACAGGCCAGGGT  
 GCGGTTCCGATGGCTGAGACCTGTGTGCCCGTCTGCGATGCAACACGGCGGCACCCATGTGGCTCAATG  
 GCTCTCATCCCTCGAGTGTGAAGGCATTGTGAGCCGCACGGCCTGTGCACACTGGAGCGACCAATGCTG  
 CCGGTGGTCCACAGAGATCCAGGTGAAGGCTTGCCAGGTGGCTTCTATATTTACAACCTTGACAGCGCCC  
 CCTGAGTGCAATCTGGCTTACTGCACCGATCCTAGTTCGGTGGAGGGGACTTGCGAAGAATGCAGGGTAG  
 ATGAAGATTGCATATCGGATAACGGCAGATGGCGCTGCCAGTGTAAACAGGACTCCAACATCACAGATGT  
 CTCCCAATTGGAGTACAGGCTGGAGTGTGGGGCCAATGACATCAAGATGTCCCTCAGAAAGTGCCAGCTA  
 CAGAGTTTGGGCTTTATGAATGTCTTATGTACCTGAATGACAGACAATGCTCAGGCTTCACTGAGAGTG  
 ATGAACGAGACTGGATGTCCATAGTGACCCCTGCCAGGAATGGTCCCTGTGGGACAGATTGAGGAGAAA  
 CGAAACCCATGCCACCTACAGCAACACCCCTTACCTGGCAAATGCGATCATCATTCCGGGACATCATCATA  
 AGAATGAACCTTTGAATGCTCTTACCCTCTGGACATGAAAGTCAGCCTGAAGACCTCCCTACAGCCCATGG  
 TCAGTGCCTGAACATCAGCTTGGGTGGGACAGGCAAGTTCACCGTGGGATGGCATTGTTCCAGAGCCC  
 TACCTACACAGCCCCACCAAGGCTCTTCTGTGATGCTGTCCACTGAGGCTTTTCTGTATGTGGGCACC  
 ATGCTGGATGGGGTACTTGTCCCGTTTGTACTGCTAATGACCAACTGCTATGCCACACCCAGTAGCA  
 ACTCCACAGACCCTGTGAAATACTTCAATATCCAGGACAGTTGTCCACGTACAGAAGATAACAACATTCA  
 GGTGACAGAGAATGGCGAGTCATCTCAGGCCGATTTTCTGTTCCAGATGTTCCGGTTTGCAGGAACTAC  
 GACCTTGTCTACCTTCACTGCGAGGTGTACCTATGTGACTCTACGAGTGAACAGTGTAAACCTACCTGCT  
 CTGGTACTAGATTCGAAGTGGGAACCTCATAGATCAGACCCGTGCTGAACTGGGTCCCATAAACAGG  
 ACAAGGTGTCAGGCCTCAGTGTCCAAGCTGCTTCCAGCAACTGAGGCTCCTGAGCATCTGGCTGCTG  
 TTGTTCCCTCAGCCACTTTGATCTTATGTTCAATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001278605

**Insert Size:** 1929 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

<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>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001278605.1</a></u> , <u><a href="#">NP_001265534.1</a></u>
<b>RefSeq Size:</b>	2581 bp
<b>RefSeq ORF:</b>	1929 bp
<b>Locus ID:</b>	22242
<b>UniProt ID:</b>	<u><a href="#">Q91X17</a></u>
<b>Cytogenetics:</b>	7 63.88 cM
<b>Gene Summary:</b>	<p>This gene encodes a glycoprotein that is the most abundant protein in mammalian urine under physiological conditions. It is synthesized in the kidney as a glycosyl-phosphatidylinositol anchored protein and released into urine as a soluble form by proteolytic cleavage. It is thought to regulate water and salt balance in the thick ascending limb of Henle and to protect against urinary tract infection and calcium oxalate crystal formation. In mouse deficiency of this gene is associated with increased susceptibility to bacterial infections and formation of calcium crystals in kidneys. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein.</p>