

Product datasheet for **SC116089**

Ubiquitin D (UBD) (NM_006398) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ubiquitin D (UBD) (NM_006398) Human Untagged Clone
Tag:	Tag Free
Symbol:	Ubiquitin D
Synonyms:	FAT10; GABBR1; UBD-3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116089 sequence for NM_006398 edited (data generated by NextGen Sequencing)

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ATGGCTCCCAATGCTTCCTGCCTCTGTGTGCATGTCCGTTCCGAGGAATGGGATTTAATG
ACCTTTGATGCCAACCCATATGACAGCGTGAAAAAATCAAAGAACATGTCCGGTCTAAG
ACCAAGGTTCTGTGCAGGACCAGGTTCTTTTGCTGGGCTCCAAGATCTTAAAGCCACGG
AGAAGCCTCTCATCTTATGGCATTGACAAAGAGAAGACCATCCACCTTACCCTGAAAGTG
GTGAAGCCCAGTGATGAGGAGCTGCCCTTGTTTCTTGTGGAGTCAGGTGATGAGGCAAAG
AGGCACCTCCTCCAGGTGCGAAGGTCCAGCTCAGTGGCACAAGTGAAAGCAATGATCGAG
ACTAAGACGGGTATAATCCCTGAGACCCAGATTGTGACTTGCAATGGAAAGAGACTGGAA
GATGGGAAGATGATGGCAGATTACGGCATCAGAAAGGGCAACTTACTCTTCTGCGATGT
TATTGTATTGGAGGGTGA
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Clone variation with respect to NM_006398.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006398 unedited
 GTTGTTCGGNATTATGTNATACGACTCACTATAGGGCGGCCGCGNAATTCGCACGAGGGC
 CCCTTGTCTGCAGAGAGGCTCCCAATGCTTCTGCCTCTGTGTGCATGTCGGTCCGAGG
 AATGGGATTTAATGACCTTTGATGCCAACCCATTATGACAGCGTGAAAAAATCAAAGAA
 CATGTCGGGTCTAAGACCAAGGTTCTGTGCAGGACCAGGTTCTTTTGTGGGCTCCAAG
 ATCTTAAAGCCACGGAGAAGCCTCTCATCTTATGGCATTGACAAAGAGAAGACCATCCAC
 CTTACCCTGAAAAGTGGTGAAGCCAGTGATGAGGAGCTGCCCTTGTTCCTTGTGGAGTCA
 GGTGATGAGGCAAAGAGGCACCTCCTCCAGGTGCGAAGGTCCAGCTCAGTGGCACAAAGT
 AAAGCAATGATCGAGACTAAGACGGGTATAATCCCTGAGACCCAGATTGTGACTTGCAAT
 GGAAAGAGACTGGAAGATGGGAAGATGATGGCAGATTACGGCATCAGAAAGGGCAACTTA
 CTCTTCTGGCATGTTATTGTATTGGAGGGTGACCACCCTGGGCATGGGGTGTGGCAGG
 GGTCAAAAAGCTATTTCTTTAATCTCTTACTCAACGAACACATCTTCTGATGATTTCC
 CAAAATTAATGAGAATGAGATGAGTAGAGTAAGATTTGGGTGGGTGGGTAGGGATTGAAA
 TTTTTTCACTCAACTCTAECTCTTACCATTCTTACTCCCCTCACTTCTTTCAACAACCT
 ATCACCTTTTCTACACTATTNTCACACCTCACTCATACCACACATCCCTCATANCCAC
 GATTTTTTTTTTACACCTTCACTCTTGTCTTCTACCATTACTTCCATCGTTTCTCCCTC
 ACCACTCACCTCTNTATTCTTCTTATCACACCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006398 unedited
 TGTACCGCGCNCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTCTATTTTGCCTTA
 AAAATTTATTTACTAGTCTCAGTAATACATTAGCTAAAAATCATGCACTTAATTAATTG
 TGTTAGAATCAAAGAAACATAGAGTTGGCAATATACTTCATCCTACCCATCCCACCCAA
 ATCTTACTCTACTCATCTCATTCTCATTAAATTTGGGAAATCATCAAAGATGTGTTCTGT
 TGAGTAAGAGATTAAGAAATAAGCTTTTTGACCCCTGCCAACACCCCATGCCAGGGT
 GGTCAACCTCCAATAACAATAACATGCCAGGAAGAGTAAGTTGCCCTTCTGATGCCGTAA
 TCTGCCATCATCTTCCCATCTTCCAGTCTCTTCCATTGCAAGTCAATCTGGGTCTCA
 GGGATTATACCCCGCCTTAGTCTCGATCATTGCTTTCACTTGTGCCACTGAGCTGGACCC
 TTCCACCTGGAGGAGGTGCCTCTTTGCCTCATCACCTGACCTCCCAACAAACAAGGGCCG
 CTCCTCATCACTGGGCTCAAACCCTCCAGGGCACGGGGCCGGGCTCCCATCCGCCCA
 CGGCCCCCTTAGGCCAGGCCCTCCCCACGCCACCACCAACTCCCTTACCCCTATCC
 GCTCCCCAGCTTACTTAACCCGTTCTCCCATCTCCGCCCGCCCTCTCGATTCTCTC
 TCCCTCCTCACCTCCCGCCTCCGCTCCCTTCCCGCCACCCGCCCCCTCCTCCGACA
 GCCCCCGACCCTCCCTCCACGCCCTCTCCCTCGCCCCCGCGCTTCCCCACGTCTCT
 CCCTCCTCTCCCTCCCTCTCTACCTTCCCTCTCACCTCCTTACCCCTCTCCTCCTCG
 CCGCACCTCTCCCGTCCCGCACGCCTACCACACTCCATNTCCCCCTCCACCCGCCCGC
 CTCGCCCCACATCTACACTCCTCACACCCTCCACCTCC

Restriction Sites:

NotI-NotI

ACCN:

NM_006398

Insert Size:

880 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).

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_006398.2](#), [NP_006389.1](#)

RefSeq Size: 971 bp

RefSeq ORF: 498 bp

Locus ID: 10537

UniProt ID: [O15205](#)

Cytogenetics: 6p22.1

Domains: UBQ

Protein Families: Druggable Genome

Gene Summary: This gene encodes a protein which contains two ubiquitin-like domains and appears to have similar function to ubiquitin. Through covalent attachment, the encoded protein targets other proteins for 26S proteasome degradation. This protein has been implicated to function in many cellular processes, including caspase-dependent apoptosis, formation of aggresomes, mitotic regulation, and dendritic cell maturation. Upregulation of this gene may promote inflammation in chronic kidney disease and has been observed in many cancer types. [provided by RefSeq, Aug 2017]