

Product datasheet for **RC204431**

Ubiquitin D (UBD) (NM_006398) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ubiquitin D (UBD) (NM_006398) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ubiquitin D
Synonyms: FAT10; GABBR1; UBD-3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC204431 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCCCAATGCTTCCTGCTCTGTGTGCATGTCCGTTCCGAGGAATGGGATTTAATGACCTTTGATG
CCAACCCATATGACAGCGTGAAAAAATCAAAGAACATGTCCGGTCTAAGACCAAGGTTCTGTGCAGGA
CCAGGTTCTTTGCTGGGCTCCAAGATCTTAAAGCCACGGAGAAGCCTCTCATCTTATGGCATTGACAAA
GAGAAGACCATCCACCTTACCCTGAAAGTGGTGAAGCCAGTGATGAGGAGCTGCCCTTGTTCCTGTGG
AGTCAGGTGATGAGGCAAAGAGGCACCTCCTCCAGGTGCGAAGGTCCAGCTCAGTGGCACAAAGTGAAGC
AATGATCGAGACTAAGACGGGTATAATCCCTGAGACCCAGATTGTGACTTGCAATGGAAAGAGACTGGAA
GATGGGAAGATGATGGCAGATTACGGCATCAGAAAGGGCAACTTACTCTTCTGGCATGTTATTGCATTG
GAGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204431 protein sequence
Red=Cloning site Green=Tags(s)

MAPNASCLCVHVRSEEWDLMTFDANPYDSVKKIKEHVRSKTKVPVQDQVLLLGSKILKPRRSLSSYGIDK
EKTIHLTLKVVKPSDEELPLFLVESGDEAKRHLLQVRRSSVAQVKAMIEKTKGIIPETQIVTCNGKRL
DGKMMADYGIRKGNLLFLACYCIGG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6014_c06.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006398

ORF Size: 495 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_006398.4](#)

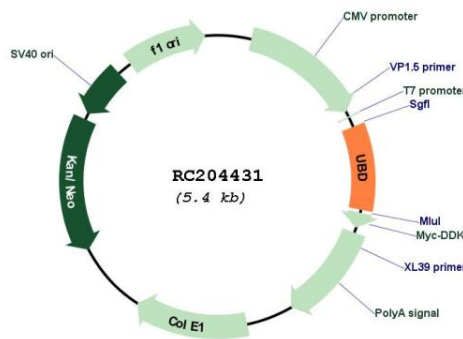
RefSeq Size: 1006 bp

RefSeq ORF: 498 bp

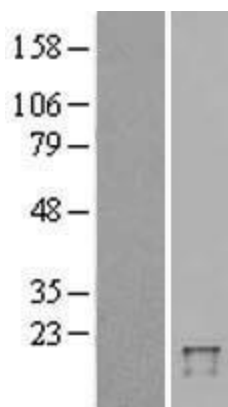
Locus ID: 10537
UniProt ID: [O15205](#)
Cytogenetics: 6p22.1
Domains: UBQ
Protein Families: Druggable Genome
MW: 18.5 kDa

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]

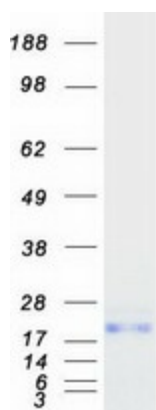
Product images:



Circular map for RC204431



Western blot validation of overexpression lysate (Cat# [LY401929]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204431 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UBD protein (Cat# [TP304431]). The protein was produced from HEK293T cells transfected with UBD cDNA clone (Cat# RC204431) using MegaTran 2.0 (Cat# [TT210002]).