

Product datasheet for MR201267

Ubd (NM_023137) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ubd (NM_023137) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ubd
Synonyms: FAT10
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201267 representing NM_023137
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTTCTGTCCGCACCTGTGTTGTCCGTTCCAGACCAATGGCGGTTAATGACCTTTGAGACCACTGAGA
 ATGACAAAGTGAAGAAGATAAATGAACATATTAGGTCCCAAACCAAGGTCTCTGTACAGGACCAGATCCT
 TCTGCTAGACTCCAAAATCCTCAAGCCCCATCGAAAATTGTCATCCTATGGGATTGACAAGGAAACCACT
 ATCCACCTTACCCTGAAGGTGGTGAAGCCCAAGTATGAAGAGCTGCCCTTGTCTTCTGGTGGAGTCCAAAA
 ACGAGGGGCAAAGGCACCTCCTCCGAGTTCGAAGATCCAGCTCAGTGGCCAGGTGAAAGAGATGATCGA
 GAGTGTGACCTCTGTGATCCCTAAGAAGCAGGTTGTGAATTGCAACGGAAGAAGCTGGAAGATGGAAG
 ATCATGGCTGACTACAACATCAAGAGTGGCAGTTTGTCTTTCTGACAACACACTGCACTGGGGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201267 representing NM_023137
 Red=Cloning site Green=Tags(s)

MASVRTCVVRSQWRLMTFETTENDKVKKINEHIRSQTKVSVQDQILLDSKILKPHRKLSSYGIDKETT
 IHLTLKVVKPSDEELPLFLVESKNEGQRHLLRVRSSSSVAQVKEMIESVTSVIPKKQVVNCGKKLEDGK
 IMADYNIKSGSLLFLTTHCTGG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI


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Cloning Scheme:


ACCN: NM_023137

ORF Size: 486 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_023137.3](#), [NP_075626.1](#)

RefSeq Size: 1006 bp

RefSeq ORF: 489 bp

Locus ID: 24108

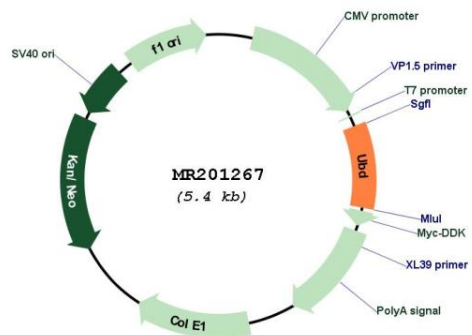
UniProt ID: [P63072](#)

Cytogenetics: 17 B1

MW: 18.8 kDa

Gene Summary: Ubiquitin-like protein modifier which can be covalently attached to target protein and subsequently leads to their degradation by the 26S proteasome, in a NUB1-dependent manner. Probably functions as a survival factor. Promotes the expression of the proteasome subunit beta type-9 (PSMB9/LMP2). Regulates TNF-alpha-induced and LPS-mediated activation of the central mediator of innate immunity NF-kappa-B by promoting TNF-alpha-mediated proteasomal degradation of ubiquitinated-I-kappa-B-alpha. Required for TNF-alpha-induced p65 nuclear translocation in renal tubular epithelial cells (RTECs). May be involved in dendritic cell (DC) maturation, the process by which immature dendritic cells differentiate into fully competent antigen-presenting cells that initiate T-cell responses. Mediates mitotic non-disjunction and chromosome instability, in long-term in vitro culture and cancers, by abbreviating mitotic phase and impairing the kinetochore localization of MAD2L1 during the prometaphase stage of the cell cycle. May be involved in the formation of aggresomes when proteasome is saturated or impaired. Mediates apoptosis in a caspase-dependent manner, especially in renal epithelium and tubular cells during renal diseases.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201267