

Product datasheet for MR204334

Ufd1 (NM_011672) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ufd1 (NM_011672) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ufd1
Synonyms:	Ufd1; Ufd1l
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204334 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTTCTTCAACATGTTTGACCACCCGATCCCCGGGTCTTCCAGAACCCTTCTCCACGCAGTACC
GCTGCTTCTCCGTGTCCATGCTAGCAGGGCCTAATGACAGGTCAGATGTGGAGAAAGGAGGGAAGATAAT
TATGCCACCCTCAGCCCTCGATCAACTCAGCCGGCTCAACATTACCTATCCTATGCTGTTAAATTGACC
AATAAGAATTCAGATCGGATGACACACTGCGGTGTACTGGAGTTTGTGCTGATGAAGGCATCTGTTACC
TCCCCACTGGATGATGCAGAATTTGCTGTTGGAGGAAGGGGCCTGGTTCAGGTGAAAGTGTCAACCT
CCAAGTGCGACCTACTCTAAGTTCAGCCTCAGAGCCAGACTTCTGGATATTACCAACCTAAAGCG
GTATTAGAAAATGCATTGAGAACTTCGCCTGTCTGACGACTGGAGATGTGATTGCTATCAACTACAATG
AGAAGATCTATGAGCTGCGGGTGTGGAGACCAACCTGACAAGGCTGTATCCATTATTGAATGTGACAT
GAATGTGGATTTTGTGCTCCCTTGGGATACAAAGAACCAGAAAGACCAGTGCAGCATGAGGAGTCAATA
GAGGGAGAAGCTGACCACAGTGGCTATGCCGGAGAGGTGGGCTTCCGTGCCTTCTCTGGTTCTGGGAATA
GACTGGATGGGAAGAAAAAGGGTTGAGCCAGTCCCTCCCAATCAAGCCTGGAGACATCAAAAGAGG
AATTCCTAATTACGAATTTAAGCTTGGTAAGATCACTTTCATCAGAAATTCACGTCCATTGGTCAAAAAG
GTTGAAGAGGATGAAGCTGGAGGCAGATTCATTGCTTTCTGGAGAAGGACAGTCACTGCGTAAGAAGG
GAAGAAAGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR204334 protein sequence
Red=Cloning site Green=Tags(s)

MFSFNMFDPHPIRVFQNRSTQYRCFSVSMLAGPNDRSDVEKGGKIIMPPSALDQLSRLNITYPMLFKLT
 NKNSDRMTHCGVLEFVADEGICYLPHWMMQNLLLEEGGLVQVESVNLQVATYSKFQSPDFLDITNPKA
 VLENALRNFACLTTGDVIAINYNEKIYELRVMETKPKAVSIIIECDMNVDFDAPLGYKEPERPVQHEESI
 EGEADHSGYAGEVGFRAFSGSGNRLDGKKKGVEPSPSPIKPGDIKRGIPNYEFKLGKITFIRNSRPLVKK
 VEDEAGGRFIAFSGEGQLRKKGRKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011672

ORF Size: 924 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.

RefSeq: [NM_011672.4](#), [NP_035802.3](#)

RefSeq Size: 1996 bp

RefSeq ORF: 924 bp

Locus ID: 22230

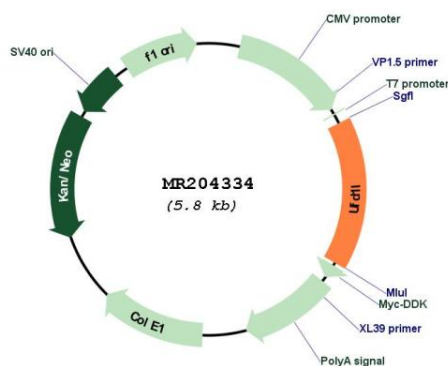
UniProt ID: [P70362](#)

Cytogenetics: 16 11.65 cM

MW: 34.5 kDa

Gene Summary: Essential component of the ubiquitin-dependent proteolytic pathway which degrades ubiquitin fusion proteins. The ternary complex containing UFD1, VCP and NPLOC4 binds ubiquitinated proteins and is necessary for the export of misfolded proteins from the ER to the cytoplasm, where they are degraded by the proteasome. The NPLOC4-UFD1-VCP complex regulates spindle disassembly at the end of mitosis and is necessary for the formation of a closed nuclear envelope. It may be involved in the development of some ectoderm-derived structures (By similarity). Acts as a negative regulator of type I interferon production via the complex formed with VCP and NPLOC4, which binds to DDX58/RIG-I and recruits RNF125 to promote ubiquitination and degradation of DDX58/RIG-I (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204334