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Product datasheet for RR208364

Ufd1 (NM_053418) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ufd1 (NM_053418) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ufd1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RR208364 representing NM_053418
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTTTCTTTCAACATGTTTGACCACCCGATTCCCCGGGTCTTCCAGAACCGCTTCTCCACGCAGTACC
GCTGCTTCTCTGTATCCATGCTAGCAGGGCCTAATGACAGGTCAGATGTGGAGAAAGGAGGGAAGATAAT
TATGCCACCCTCAGCCCTCGATCAACTCAGCCGGCTCAACATTACCTATCCTATGCTGTTTAAATTGACC
AATAAGAATTCAGACCGAATGACACACTGTGGTGTACTGGAGTTTGTTGCTGATGAAGGCATCTGTTACC
TCCCCCACTGGATGATGCAGAATTTGCTGTTGGAAGAAGGGGGCCTGGTTCAGGTGGAAAGTGTCAACCT
TCAGGTGGCTACTTACTCTAAGTTCCAGCCTCAGAGCCCAGACTTCCTGGATATCACCAACCCCAAAGCA
GTATTAGAAAATGCACTGAGGAACTTCGCCTGTCTGACGACTGGAGATGTGATCGCTATCAACTACAATG
AGAAGATCTATGAACTGCGGGTGATGGAGACCAAACCGGACAAGGCCGTATCCATTATTGAATGTGACAT
GAATGTGGATTTTGATGCTCCCTTGGGCTACAAAGAACCAGAAAGACCAGTACAGCATGAGGAGTCAATA
GAGGGAGAAGCTGACCACAGTGGCTATGCTGGAGAAGTGGGCTTCCGTGCCTTCTCTGGTTCTGGGAATA
GACTGGATGGAAAGAAAAAGGGGGTTGAACCCAGTCCCTCCCCAATCAAGCCTGGAGACATTAAAAGAGG
AATTCCTAATTACGAATTTAAGCTTGGTAAGATCACTTTCATCAGAAATTCACGTCCAATGGTCAAAAAG
GTTGAAGAGGATGAAGCTGGAGGCAGATTCGTTGCTTTCTCTGGAGAAGGACAGTCGCTGCGGAAGAAGG
GAAGAAAGCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

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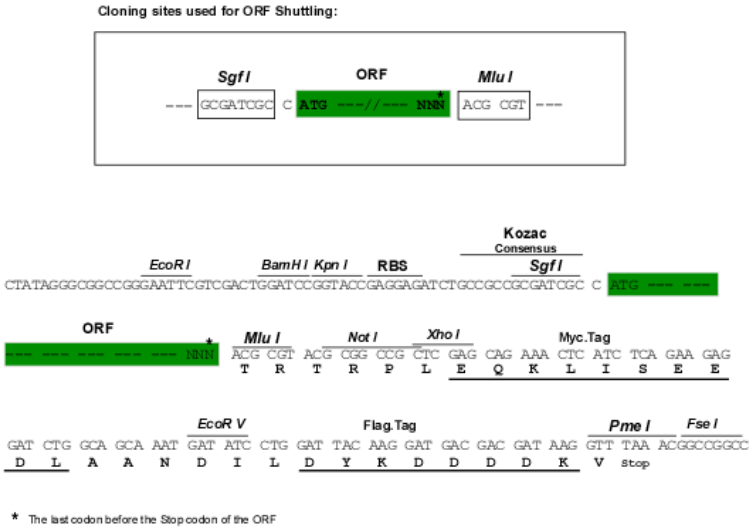
>RR208364 representing NM_053418
Red=Cloning site Green=Tags(s)

MFSFNMFDHPIPRVFQNRFSTQYRCFSVSMLAGPNDRSDVEKGGKIIMPPSALDQLSRLNITYPMLFKLT
NKNSDRMTHCGVLEFVADEGICYLPHWMMQNLLLEEGGLVQVESVNLQVATYSKFQPQSPDFLDITNPKA
VLENALRNFACLTTGDVIAINYNEKIYELRVMETKPDKAVSIIECDMNVDFDAPLGYKEPERPVQHEESI
EGEADHSGYAGEVGFRAFSGSGNRLDGKKKGVEPSPSPIKPGDIKRGIPNYEFKLGKITFIRNSRPMVKK
VEEDEAGGRFVAFSGEGQSLRKKGRKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_053418

ORF Size: 921 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).

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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_053418.2, NP_445870.1

RefSeq Size: 1802 bp

RefSeq ORF: 924 bp

Locus ID: 84478

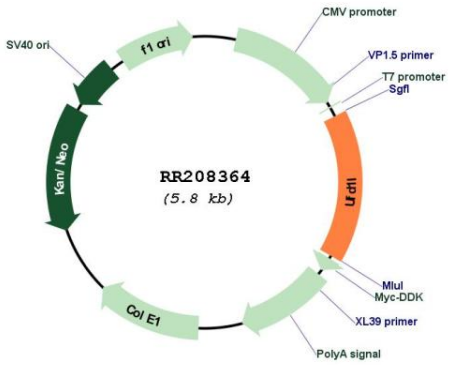
UniProt ID: Q9ES53

Cytogenetics: 11q23

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 (PubMed:10811609). 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 RR208364

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