

Product datasheet for **RN208364**

Ufd1 (NM_053418) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ufd1 (NM_053418) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ufd1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN208364 representing NM_053418 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTTCTTTCAACATGTTTGACCACCCGATTCCCCGGGTCTTCCAGAACCCTTCTCCACGCAGTACC
GCTGCTTCTGTATCCATGCTAGCAGGGCCTAATGACAGGTCAGATGTGGAGAAAGGAGGAAGATAAT
TATGCCACCCTCAGCCCTCGATCAACTCAGCCGGCTCAACATTACCTATCCTATGCTGTTAAATTGACC
AATAAGAATTCAGACCGAATGACACACTGTGGTGTACTGGAGTTTGTGGCTGATGAAGGCATCTGTTACC
TCCCCACTGGATGATGCAGAATTTGCTGTTGGAAGAAGGGGCCCTGGTTCAGGTGAAAGTGTCAACCT
TCAGGTGGCTACTTACTCTAAGTTCCAGCCTCAGAGCCAGACTTCTGGATATCACCAACCCCAAAGCA
GTATTAGAAAATGCACTGAGGAACCTCGCCTGTCTGACGACTGGAGATGTGATCGCTATCAACTACAATG
AGAAGATCTATGAACTGCGGGTATGGAGACCAACCGGACAAGGCCGTATCCATTATTGAATGTGACAT
GAATGTGGATTTTGTGCTCCCTTGGGCTACAAAGAACCAGAAAGACCAGTACAGCATGAGGAGTCAATA
GAGGGAGAAGCTGACCACAGTGGCTATGCTGGAGAAGTGGGCTCCCGTGCCTTCTCTGGTTCTGGGAATA
GACTGGATGGAAGAAAAAGGGGTTGAACCCAGTCCCTCCCAATCAAGCCTGGAGACATTAAGAGAGG
AATTCCTAATTACGAATTAAGCTTGGTAAAGTCACTTTCATCAGAAATTCACGTCCAATGGTCAAAAAG
GTTGAAGAGGATGAAGCTGGAGGCAGATTCGTTGCTTTCTCTGGAGAAGGACAGTCGCTGCGGAAGAAGG
GAAGAAAGCCCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_053418
Insert Size:	924 bp



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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:	<ol style="list-style-type: none">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
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]