

Product datasheet for **RC202989**

UFD1 (NM_005659) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: UFD1 (NM_005659) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: UFD1
Synonyms: UFD1L
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC202989 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCTCTTTCAACATGTTTCGACCACCCTATCCAGGGTCTTCCAAAACCGTTCTCCACACAGTACC
GCTGCTTCTGTGTCCATGCTAGCAGGGCCTAATGACAGGTCAGATGTGGAGAAAGGAGGGAAGATAAT
TATGCCACCCTCGGCCCTGGACCAACTCAGCCGACTTAACATTACCTATCCCATGCTGTTCAAAGTACC
AATAAGAATTCGGACCGCATGACGCATTGTGGCGTCTGGAGTTTGTGGCTGATGAGGGCATCTGCTACC
TCCCACTGGATGATGCAGAACTTACTCTTGAAGAAGGCGCCCTGGTCCAGGTGGAGAGCGTCAACCT
TCAAGTGCCACCTACTCCAATTCCAACCTCAGAGCCCTGACTTCTGGACATCAACAACCCAAAGCC
GTATTAGAAAACGCACTTAGGAACCTTTCGCTGTCTGACCACCGGGGATGTGATTGCCATCAACTATAATG
AAAAGATCTACGAACTGCGTGTGATGGAGACCAACCCGACAAGGCAGTGTCCATCATTGAGTGTGACAT
GAACGTGGACTTTGATGCTCCCTGGGCTACAAAGAACCCGAAAGACAAGTCCAGCATGAGGAGTCGACA
GAAGGTGAAGCCGACCACAGTGGCTATGCTGGAGAGCTGGGCTTCCGCGCTTCTCTGGATCTGGCAATA
GACTGGATGGAAGAAGAAGGGGTAGAGCCAGCCCTCCCAATCAAGCCTGGAGATATTAAGAGG
AATTCCAATTATGAATTTAACTTGGTAAGATAACTTTCATCAGAAATTCACGTCCCTTGTCAAAAAG
GTTGAAGAGGATGAAGCTGGAGGCAGATTGTCGCTTTCTGGAGAAGGACAGTCATTGCGTAAAAGG
GAAGAAAGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202989 protein sequence
Red=Cloning site Green=Tags(s)

MFSFNMFDPHPIPRVFQNRSTQYRCFSVSMLAGPNDRSDVEKGGKIIMPPSALDQLSRLNITYPMLFKLT
 NKNSDRMTHCGVLEFVADEGICYLPHWMMQNLLLEEGGLVQVESVNLQVATYSKFPQSPDFLDITNPKA
 VLENALRNFACLTTGDVIAINYNEKIYELRVMETKPKAVSIIIECDMNVDFDAPLGYKEPERQVQHEEST
 EGEADHSGYAGELGFRAFSGSGNRLDGKKKGVEPSPSPIKPGDIKRGIPNYEFKLGKITFIRNSRPLVKK
 VEDEAGGRFVAFSGEGQSLRKKGRKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6233_f02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005659

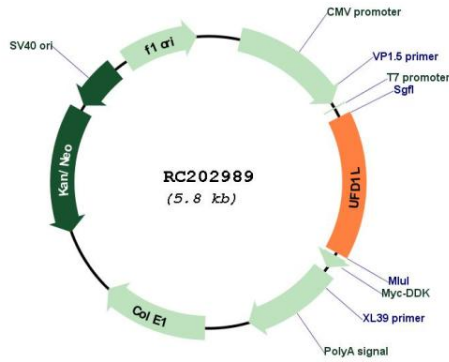
ORF Size: 921 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

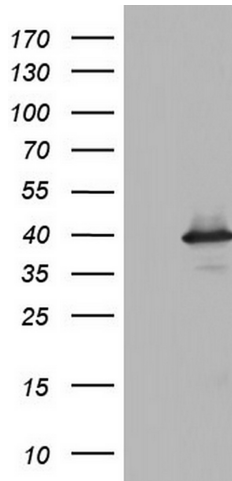
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_005659.7
RefSeq Size:	1783 bp
RefSeq ORF:	924 bp
Locus ID:	7353
UniProt ID:	Q92890
Cytogenetics:	22q11.21
Domains:	UFD1
MW:	34.5 kDa
Gene Summary:	The protein encoded by this gene forms a complex with two other proteins, nuclear protein localization-4 and valosin-containing protein, and this complex is necessary for the degradation of ubiquitinated proteins. In addition, this complex controls the disassembly of the mitotic spindle and the formation of a closed nuclear envelope after mitosis. Mutations in this gene have been associated with Catch 22 syndrome as well as cardiac and craniofacial defects. Alternative splicing results in multiple transcript variants encoding different isoforms. A related pseudogene has been identified on chromosome 18. [provided by RefSeq, Jun 2009]

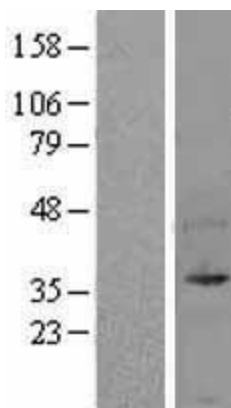
Product images:



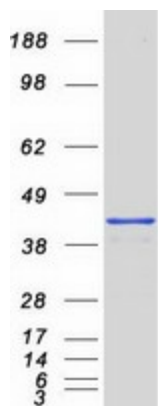
Circular map for RC202989



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY UFD1L (Cat# RC202989, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-UFD1L (Cat# [TA804317]). Positive lysates [LY417150] (100ug) and [LC417150] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY422127]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC213180] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UFD1 protein (Cat# [TP302989]). The protein was produced from HEK293T cells transfected with UFD1 cDNA clone (Cat# RC202989) using MegaTran 2.0 (Cat# [TT210002]).