

Product datasheet for **RG202989**

UFD1 (NM_005659) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UFD1 (NM_005659) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UFD1
Synonyms:	UFD1L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202989 representing NM_005659 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCTCTTTCAACATGTTTCGACCACCCTATTCCAGGGTCTTCCAAAACCGCTTCTCCACACAGTACC
GCTGCTTCTGTGTCCATGCTAGCAGGGCCTAATGACAGGTCAGATGTGGAGAAAGGAGGGAAGATAAT
TATGCCACCCTCGGCCCTGGACCAACTCAGCCGACTTAACATTACCTATCCCATGCTGTTCAAAGTACC
AATAAGAATTCGGACCGCATGACGCATTGTGGCGTCTGGAGTTTGTGGCTGATGAGGGCATCTGCTACC
TCCCACTGGATGATGCAGAATTACTCTTGGAAAGAAGGCGCCTGGTCCAGGTGGAGAGCGTCAACCT
TCAAGTGCCACCTACTCCAATTCCAACCTCAGAGCCCTGACTTCTGGACATCAACAACCCAAAGCC
GTATTAGAAAACGCACCTAGGAACCTTGGCTGTCTGACCACCGGGATGTGATTGCCATCAACTATAATG
AAAAGATCTACGAACTGCGTGTGATGGAGACCAACCCGACAAGGCAGTGTCCATCATTGAGTGTGACAT
GAACGTGGACTTTGATGCTCCCCGGGCTACAAAGAACCCGAAAGACAAGTCCAGCATGAGGAGTCGACA
GAAGGTGAAGCCGACCACAGTGGCTATGCTGGAGAGCTGGGCTTCCGCGCTTCTCTGGATCTGGCAATA
GACTGGATGGAAGAAGAAGGGGTAGAGCCAGCCCTCCCAATCAAGCCTGGAGATATTAAGAGG
AATTCCAATTATGAATTTAACTTGGTAAGATAACTTTCATCAGAAATTCACGTCCTTGTCAAAAAG
GTTGAAGAGGATGAAGCTGGAGGCAGATTGTCGCTTCTCTGGAGAAGGACAGTCATTGCGTAAAAGG
GAAGAAAGCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202989 representing NM_005659
 Red=Cloning site Green=Tags(s)

MFSFNMFDPHPIPRVFQNRFFSTQYRCFSVSMLAGPNDRSDVEKGGKIIMPPSALDQLSRLNITYPMLFKLT
 NKNSDRMTHCGVLEFVADEGICYLPHWMMQNLLEEGGLVQVESVNLQVATYSKFQSPDFLDITNPKA
 VLENALRNFACLTTGDVIAINYNEKIYELRVMETKPKAVSIIIECDMNVDFDAPLGYKEPERQVQHEEST
 EGEADHSGYAGELGFRAFSGSGNRLDGKKKGVEPSPSPIKPGDIKRGIPNYEFKLGKITFIRNSRPLVKK
 VEDEAGGRFVAFSGEGQLRKKGRKP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005659

ORF Size: 921 bp

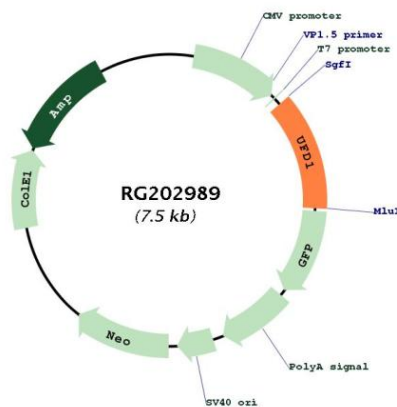
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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.
RefSeq:	<u>NM_005659.7</u>
RefSeq Size:	1534 bp
RefSeq ORF:	924 bp
Locus ID:	7353
UniProt ID:	<u>Q92890</u>
Cytogenetics:	22q11.21
Domains:	UFD1
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 RG202989