

Product datasheet for **RC213180**

UFD1 (NM_001035247) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: UFD1 (NM_001035247) 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: >RC213180 representing NM_001035247
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTCTCTTCAACATGTTTCGACCACCCTATCCAGGGTCTTCCAAAACCGCTTCTCCACACAGTACC
GCTGCTTCTCTGTGTCCATGCTAGCAGGGCCTAATGACAGGTCAGATGTGGAGAAAGGAGGGAAGAGCCG
ACTTAACATTACCTATCCCATGCTGTTCAAACCTGACCAATAAGAATTCGGACCGCATGACGCATTGTGGC
GTGCTGGAGTTTGTGGCTGATGAGGGCATCTGCTACCTCCACACTGGATGATGCAGAACTTACTCTTGG
AAGAAGGCGGCCCTGGTCCAGGTGGAGAGCGTCAACCTTCAAGTGGCCACCTACTCCAAATCCAACCTCA
GAGCCCTGACTTCTGGACATCACCAACCCCAAAGCCGATTAGAAAACGCACTTAGGAACCTTGCCTGT
CTGACCACCGGGGATGTGATTGCCATCAACTATAATGAAAAGATCTACGAACTGCGTGTGATGGAGACCA
AACCCGACAAGGCAGTGTCCATCATTGAGTGTGACATGAACGTGGACTTTGATGCTCCCCTGGGCTACAA
AGAACCCGAAAGACAAGTCCAGCATGAGGAGTCGACAGAAGGTGAAGCCGACCACAGTGGCTATGCTGGA
GAGCTGGGCTTCCGCGCTTCTCTGGATCTGGCAATAGACTGGATGGAAGAAGAAAGGGGTAGAGCCCA
GCCCTCCCAATCAAGCCTGGAGATATTAAGAGGAATTCCAATTATGAATTTAAACTTGGTAAGAT
AACTTTTCATCAGAAATTCAGTCCCCTTGTCAAAAAGGTTGAAGAGGATGAAGCTGGAGGCAGATTCTGC
GCTTTCTCTGGAGAAGGACAGTCATTGCGTAAAAAGGGAAGAAAGCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC213180 representing NM_001035247
Red=Cloning site Green=Tags(s)

MFSFNMFDPHPIPRVFQNRFFSTQYRCFSVSMLAGPNDRSDVEKGGKSRNLNITYPMLFKLTNKNSDRMTHCG
 VLEFVADEGICYLPHWMMQNLLLEEGGLVQVESVNLQVATYSKFQPSDFLDITNPKAVLENALRNFAC
 LTTGDVIAINYNEKIYELRVMETKPKAVSIIIECDMNVDFDAPLGYKEPERQVQHEESTEAGEADHSGYAG
 ELGFRAFSGSGNRLDGKKKGVEPSPSPIKPGDIKRGIPNYEFKLGKITFIRNSRPLVKKVEEDEAGGRFV
 AFSGEGQSLRKKGRKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001035247

ORF Size: 888 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_001035247.1](#), [NP_001030324.1](#)

RefSeq Size: 1501 bp

RefSeq ORF: 801 bp

Locus ID: 7353

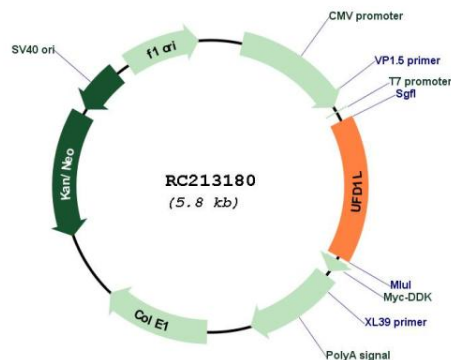
UniProt ID: [Q92890](#)

Cytogenetics: 22q11.21

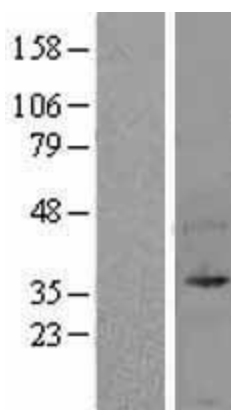
MW: 33.32 kDa

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]

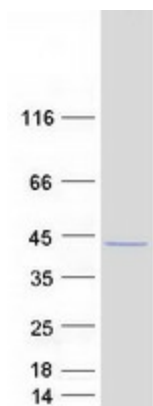
Product images:



Circular map for RC213180



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# [TP313180]). The protein was produced from HEK293T cells transfected with UFD1 cDNA clone (Cat# RC213180) using MegaTran 2.0 (Cat# [TT210002]).