

## Product datasheet for RC207283

### UBE2D2 (NM\_181838) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** UBE2D2 (NM\_181838) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** UBE2D2  
**Synonyms:** E2(17)KB2; PUBC1; UBC4; UBC4/5; UBCH4; UBCH5B  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC207283 representing NM\_181838  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTCTGAAGAGAATCCACAAGGAATTGAATGATCTGGCAGGGACCCTCCAGCACAGTGTTCAGCAG  
 GTCCTGTTGGAGATGATGTTCCATTGGCAAGCTACAATAATGGGGCCAAATGACAGTCCCTATCAGGG  
 TGGAGTATTTTCTTGACAATTCATTTCCAACAGATTACCCCTCAAACCACCTAAGGTTGCATTTACA  
 ACAAGAATTTATCATCCAATATTAACAGTAATGGCAGCATTGTCTTGATATTCTACGATCACAGTGGT  
 CTCCAGCACTAACTATTTCAAAGTACTCTGTCCATCTGTTCTCTGTTGTGTGATCCCAATCCAGATGA  
 TCCTTTAGTGCCTGAGATTGCTCGGATCTACAAAACAGATAGAGAAAAGTACAACAGAATAGCTCGGAA  
 TGGACTCAGAAGTATGCGATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC207283 representing NM\_181838  
 Red=Cloning site Green=Tags(s)  
 MALKRIHKELNDLARDPPAQCSAGPVGDDMFHWQATIMGPNDSPYQGGVFFLTIHFPTDYPFKPPKVAFT  
 TRIYHPNINSNGSICLDILRSQWSPALTIKSVLLSICSLLCDPNPDDPLVPEIARIYKTDREKYNRIARE  
 WTQKYAM

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg2875\\_b11.zip](https://cdn.origene.com/chromatograms/mg2875_b11.zip)



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_181838

ORF Size: 441 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 Size: 2879 bp

RefSeq ORF: 357 bp

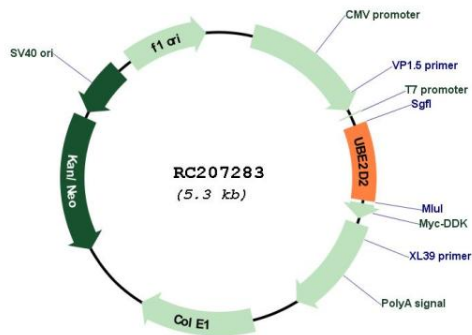
Locus ID: 7322

UniProt ID: [P62837](#)

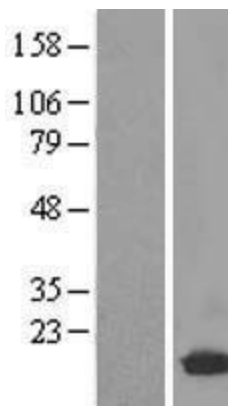
**Cytogenetics:** 5q31.2  
**Protein Pathways:** Ubiquitin mediated proteolysis  
**MW:** 13.5 kDa

**Gene Summary:** Regulated degradation of misfolded, damaged or short-lived proteins in eukaryotes occurs via the ubiquitin (Ub)-proteasome system (UPS). An integral part of the UPS system is the ubiquitination of target proteins and covalent linkage of Ub-containing proteins to form polymeric chains, marking them as targets for 26S proteasome-mediated degradation. Ubiquitination of proteins is mediated by a cascade of enzymes which includes E1 (ubiquitin activating), E2 (ubiquitin conjugating), and E3 (ubiquitin ligases) enzymes. This gene encodes a member of the E2 enzyme family. Substrates of this enzyme include the tumor suppressor protein p53 and peroxisomal biogenesis factor 5 (PEX5). Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, May 2013]

### Product images:



Circular map for RC207283



Western blot validation of overexpression lysate (Cat# [LY405611]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207283 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UBE2D2 protein (Cat# [TP307283]). The protein was produced from HEK293T cells transfected with UBE2D2 cDNA clone (Cat# RC207283) using MegaTran 2.0 (Cat# [TT210002]).