

Product datasheet for **RC218795**

UBE2D2 (NM_003339) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBE2D2 (NM_003339) 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:	>RC218795 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTCTGAAGAGAATCCACAAGGAATTGAATGATCTGGCAGGGACCCTCCAGCACAGTGTTCAGCAG
GTCCTGTTGGAGATGATATGTTCCATTGGCAAGCTACAATAATGGGGCCAAATGACAGTCCCTATCAGGG
TGGAGATTTTTCTTGACAATTCATTTCCAACAGATTACCCCTTCAAACCACCTAAGGTTGCATTTACA
ACAAGAATTTATCATCCAATATTAACAGTAATGGCAGCATTGTCTTGATATTCTACGATCACAGTGGT
CTCCAGCACTAACTATTTCAAAGTACTCTGTCCATCTGTTCTCTGTTGTGTGATCCCAATCCAGATGA
TCCTTTAGTGCCTGAGATTGCTCGGATCTACAAAACAGATAGAGAAAAGTACAACAGAATAGCTCGGGAA
TGGACTCAGAAGTATGCGATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC218795 protein sequence Red=Cloning site Green=Tags(s)
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MALKRIHKELNDLARDPPAQCSAGPVGDDMFHWQATIMGPNDSPYQGGVFFLTIHFPTDYPFKPPKVAFT
TRİYHPNINSNGSICLDILRSQWSPAL TISKVLLSICSLLCDPNPDDPLVPEIARIYKTDREKYNRIARE
WTQKYAM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:	https://cdn.origene.com/chromatograms/mk6365_e05.zip
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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003339

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: [NM_003339.3](#)

RefSeq Size: 2715 bp

RefSeq ORF: 444 bp

Locus ID: 7322

UniProt ID: [P62837](#)

Cytogenetics: 5q31.2

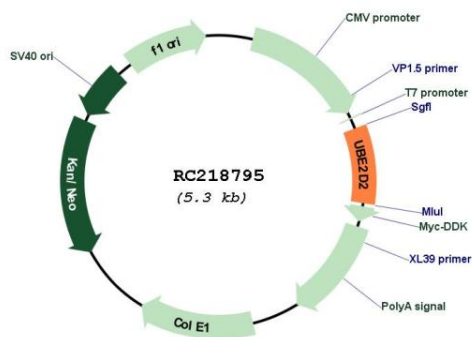
Domains: UBCc

Protein Pathways: Ubiquitin mediated proteolysis

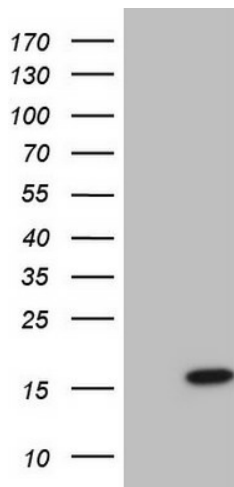
MW: 16.7 kDa

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]

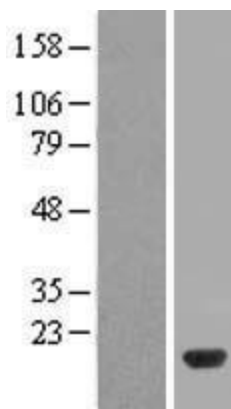
Product images:



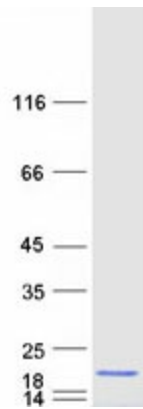
Circular map for RC218795



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY UBE2D2 (Cat# RC218795, 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-UBE2D2(Cat# [TA806600]). Positive lysates [LY418757] (100ug) and [LC418757] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY418757]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218795 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UBE2D2 protein (Cat# [TP318795]). The protein was produced from HEK293T cells transfected with UBE2D2 cDNA clone (Cat# RC218795) using MegaTran 2.0 (Cat# [TT210002]).