

## Product datasheet for RC213686

### UBE2D3 (NM\_181889) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UBE2D3 (NM_181889) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UBE2D3
Synonyms:	E2(17)KB3; UBC4/5; UBCH5C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC213686 representing NM_181889. Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**  
 ATGGCGCTGAAACGGATTAATAAGGAACCTAGTGATTTGGCCCGTGACCCTCCAGCACAATGTTCTGCA  
 GGTCCAGTTGGGGATGATATGTTTCATTGGCAAGCCACAATTATGGGACCTAATGACAGCCCATATCAA  
 GGCGGTGTATTCTTTTGACAATTCATTTTCTACAGACTACCCCTTCAAACCACCTAAGGTTGCATTT  
 ACAACAAGAATTTATCATCCAAATTAACAGTAATGGCAGCATTTGTCTCGATATTCTAAGATCACAG  
 TGGTCGCCTGCTTAACAATTTCTAAAGTTCTTTATCCATTTGTTCACTGCTATGTGATCCAAACCCA  
 GATGACCCCTAGTGCCAGAGATTGCACGATCTATAAACAGACAGAGATAAGTACAACAGAATATCT  
 CGGGAATGGACTCAGAAGTATGCCATG  
**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Protein Sequence:	>Peptide sequence encoded by RC213686 Blue=ORF Red=Cloning site Green=Tag(s)
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MALKRINKELSDLARDPPAQCSAGPVGDDMFHWQATIMGPNDSPYQGGVFFLTIHFPTDYPFKPPKVA  
 TTRIYHPNINSNGSICLDILRSQWSPALTISKVLLSICSLLCDPNPDDPLVPEIARIYKTRDRKYNRIS  
 REWTQKYAM  
**TR**TRPLE**QKLISEEDLA**ANDILDYKDDDDKV

Recombinant protein using RC213686 also available, [TP313686](#)

Chromatograms:	<a href="https://cdn.origene.com/chromatograms/mk6340_c05.zip">https://cdn.origene.com/chromatograms/mk6340_c05.zip</a>
Restriction Sites:	Sgfl-MluI


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**Cloning Scheme:**


**ACCN:** NM\_181889

**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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_181889.2](#)

**RefSeq Size:** 3856 bp

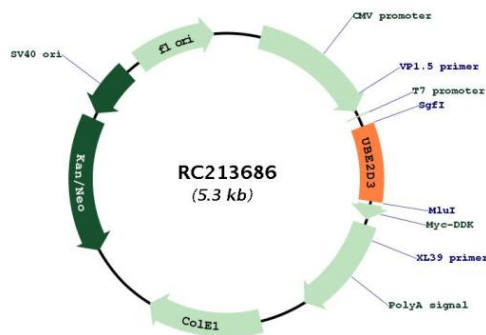
**RefSeq ORF:** 444 bp

**Locus ID:** 7323

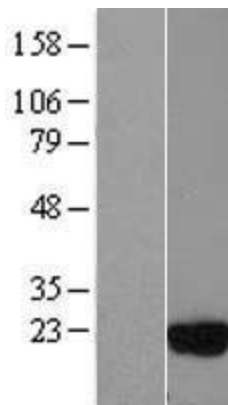
UniProt ID: [P61077](#)  
 Cytogenetics: 4q24  
 Protein Pathways: Ubiquitin mediated proteolysis  
 MW: 16.7 kDa

**Gene Summary:** The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes, or E1s, ubiquitin-conjugating enzymes, or E2s, and ubiquitin-protein ligases, or E3s. This gene encodes a member of the E2 ubiquitin-conjugating enzyme family. This enzyme functions in the ubiquitination of the tumor-suppressor protein p53, which is induced by an E3 ubiquitin-protein ligase. [provided by RefSeq, Jan 2017]

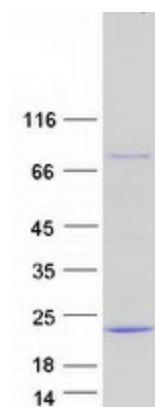
## Product images:



Circular map for RC213686



Western blot validation of overexpression lysate (Cat# [LY405579]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC222643] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UBE2D3 protein (Cat# [TP313686]). The protein was produced from HEK293T cells transfected with UBE2D3 cDNA clone (Cat# RC213686) using MegaTran 2.0 (Cat# [TT210002]).