

Product datasheet for **RC204985**

UBE2W (NM_018299) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: UBE2W (NM_018299) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: UBE2W
Synonyms: UBC-16; UBC16
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC204985 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCAATGCAGAAACGACTACAGAAAGAACTGTTGGCTTTGCAAAATGACCCACCTCCTGGAATGA
CCTTAAATGAGAAGAGTGTTCAAAATTCATTACACAGTGGATTGTAGACATGGAAGGTGCACCAGGTAC
CTTATATGAAGGGGAAAAATTTCAACTTCTATTTAAATTTAGTAGTCGATATCCTTTTGACTCTCCTCAG
GTCATGTTTACTGGTAAAAATTTCTGTTTCATCCTCATGTTTATAGCAATGGTCATATCTGTTTATCCA
TTCTAACAGAAGACTGGTCCCCAGCGCTCTCAGTCCAATCAGTTTGTCTTAGCATTATTAGCATGCTTTC
CAGCTGCAAGGAAAAGAGACGACCACCGGATAATTCCTTTTATGTGCGAACATGTAACAAGATCCAAAG
AAAACAAAATGGTGGTATCATGATGATACTTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204985 protein sequence
Red=Cloning site Green=Tags(s)
MASMQKRLQKELLALQNDPPPGMTLNEKSVQNSITQWIVDMEGAPGTYEGEKFQLLFKFSRYPFDSPQ
VMFTGENIPVHPHVYSNGHICLSILTEDWSPALSVQSVCLSIISMLSSCKEKRRPPDNFVYVRTCNKNPK
KTKWWYHDDTC

TRTRPLEQK**L**ISEEDLAANDILDYKDDDDK**V**

Chromatograms: https://cdn.origene.com/chromatograms/mk6061_a04.zip



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018299

ORF Size: 453 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_018299.6](#)

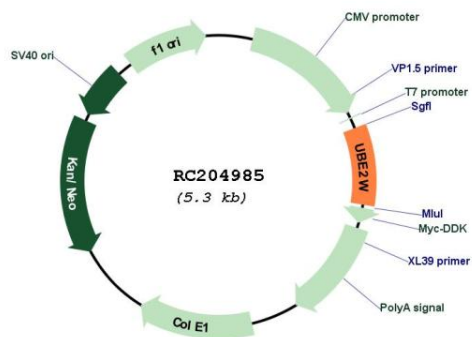
RefSeq Size: 8426 bp

RefSeq ORF: 456 bp

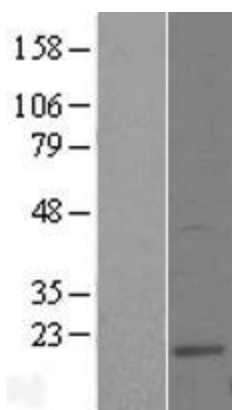
Locus ID: 55284
UniProt ID: [Q96B02](#)
Cytogenetics: 8q21.11
Domains: UBCc
Protein Families: Transcription Factors
Protein Pathways: Ubiquitin mediated proteolysis
MW: 17.3 kDa

Gene Summary: This gene encodes a nuclear-localized ubiquitin-conjugating enzyme (E2) that, along with ubiquitin-activating (E1) and ligating (E3) enzymes, coordinates the addition of a ubiquitin moiety to existing proteins. The encoded protein promotes the ubiquitination of Fanconi anemia complementation group proteins and may be important in the repair of DNA damage. There is a pseudogene for this gene on chromosome 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]

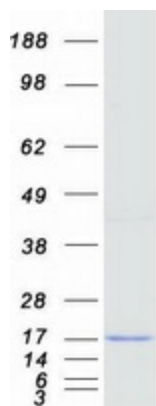
Product images:



Circular map for RC204985



Western blot validation of overexpression lysate (Cat# [LY402664]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204985 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UBE2W protein (Cat# [TP304985]). The protein was produced from HEK293T cells transfected with UBE2W cDNA clone (Cat# RC204985) using MegaTran 2.0 (Cat# [TT210002]).