

## Product datasheet for **RC229978**

### UBXN6 (NM\_001171091) Human Tagged ORF Clone

#### Product data:

|                           |                                                                                |
|---------------------------|--------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                            |
| Product Name:             | UBXN6 (NM_001171091) Human Tagged ORF Clone                                    |
| Tag:                      | Myc-DDK                                                                        |
| Symbol:                   | UBXN6                                                                          |
| Synonyms:                 | UBXD1; UBXDC2                                                                  |
| Mammalian Cell Selection: | Neomycin                                                                       |
| Vector:                   | pCMV6-Entry (PS100001)                                                         |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                           |
| ORF Nucleotide Sequence:  | >RC229978 representing NM_001171091<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGGCAGCCGCTGCCGCCCTAGCCCGGCTGGAGCAGAAGCAGTCCCGGGCCTGGGGCCCCACATCGCAGG  
ACACCATCCGAAACCAGGTGAGAAAGGAACCTCAAGCCGAAGCCACCGTCAGCGGGAGCCCCGAGGCCCC  
AGGGACCAACGTGGTATCTGAGCCAGAGAGGAAGGCTCTGCCACCTGGCTGTGCCTGGCGTGTACTTC  
ACCTGTCCGCTCACTGGGGCCACCCTGAGGAAGGACCAGCGGGACGCCTGCATCAAGGAGGCCATTCTCT  
TGCACTTCTCCACCGACCCAGTGGCCGCCCTCCATCATGAAGATCTACACGTTCAACAAAGACCAGGACCG  
GGTGAAGCTGGGTGTGGACACCATTGCCAAGTACCTGGACAACATCCACCTGCACCCGAGGAGGAGAAG  
TACCGGAAGATCAAGCTGCAGAACAAAGGTGTTTCAGGAGCGCATTAACCTGCCTGGAAGGGACCCACGAGT  
TTTTTGAGGCCATTGGGTTCAGAAAGGTGTTGCTTCCCGCCAGGATCAGGAGGACCCGAGGAGTTCTA  
CGTGCTGAGCGAGACCACCTTGGCCCAGCCCCAGAGCCTGGAGAGGCACAAGGAACAGCTGCTGGCTGCG  
GAGCCCGTGCGGCCAAGCTGGACAGGCAGCGCCGCTTCCAGCCCTCGCCCCTGCCCTCGCAGTTCTG  
AACTGCCTGGGGACTTCTTAACCTCACAGCAGAGGAGATCAAGCGGGAGCAGAGGCTCAGGTCCGAGGC  
GGTGGAGCGGCTGAGCGTGCTGCGGACCAAGGCCATGCGGGAGAAGGAGGAGCAGCGGGGGCTGCGCAAG  
TACAACTACACGCTGCTGCGCGTGCGCCTCCCCGATGGCTGCCTCCTGCAGGGCACTTTCTACGCTCGGG  
AGCGGCTGGGGGCGGTGTACGGGTTCTGTCGGGAGGCCCTGCAGAGCGACTGGCTGCCTTTTGAGCTGCT  
GGCCTCGGGAGGGCAGAAGCTGTCCGAGGACGAGAACCTGGCCTTGAACGAGTGCAGGGCTGGTGCCTCT  
GCCCTCCTGACCTTCTGCTGGGACATGGCTGTGCTGGAGGACATCAAGGCCGCGGGGGCCGAGCCGACT  
CCATCCTGAAACCCGAGCTCCTGTCAGCCATCGAGAAGCTCTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC229978 representing NM\_001171091

Red=Cloning site Green=Tags(s)

MAAAAALARLEQKQSRAWGPTSQDTRNQVRKELQAEATVSGSPEAPGTNVVSEPREEGSAHLAVPGVYF  
TCPLTGATLRKQDQDACIKEAILLHFSTDPVAASIMKIYTFNKDQDRVKLGVDTIAKYLNDNIHLHPEEEK  
YRKIKLQNKVQFERINCLEGTHEFFEAIGFKVLLPAQDQEDPEEFVYLSETTLAQPSLERHKEQLLAA  
EPVRAKLDQRQRVFQPSPLASQFELPGDFNLTAEIKREQRLRSEAVERLSVLRTKAMREEEQRLRK  
YNYTLRLVRLPDGCLLQGTIFYARERLGAUVGFVREALQSDWLPFELLASGGQKLSEDENLALNECGLVPS  
ALLTFSWDMAVEDIKAAGAEPDSILKPELISATEKLL

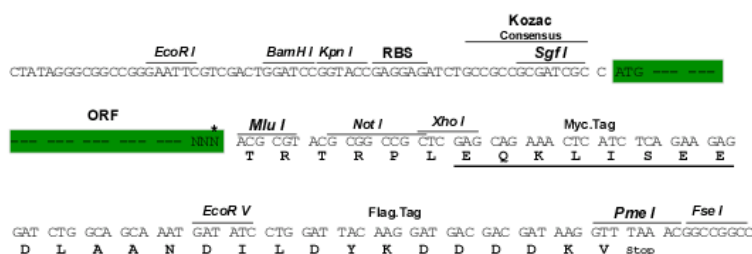
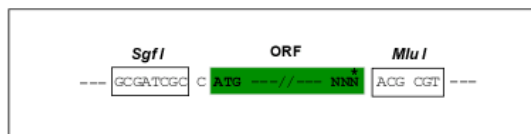
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

### Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

ACCN: NM 001171091

ORF Size: 1164 bp

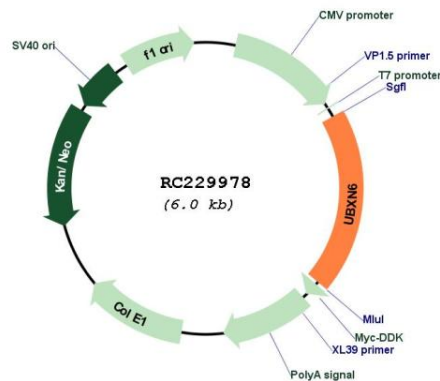
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>                                                                                                                      |
| <b>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>RefSeq:</b>                | <u>NM_001171091.2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>RefSeq ORF:</b>            | 1167 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Locus ID:</b>              | 80700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>UniProt ID:</b>            | <u>Q9BZV1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Cytogenetics:</b>          | 19p13.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>MW:</b>                    | 44.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Gene Summary:</b>          | May negatively regulate the ATPase activity of VCP, an ATP-driven segregase that associates with different cofactors to control a wide variety of cellular processes (PubMed:26475856). As a cofactor of VCP, it may play a role in the transport of CAV1 to lysosomes for degradation (PubMed:21822278, PubMed:23335559). It may also play a role in endoplasmic reticulum-associated degradation (ERAD) of misfolded proteins (PubMed:19275885). Together with VCP and other cofactors, it may play a role in macroautophagy, regulating for instance the clearance of damaged lysosomes (PubMed:27753622).[UniProtKB/Swiss-Prot Function] |

## Product images:



Circular map for RC229978