

## Product datasheet for **RC208225**

### UBXD3 (UBXN10) (NM\_152376) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UBXD3 (UBXN10) (NM_152376) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UBXD3
Synonyms:	UBXD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208225 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCACAGAAGCCCTGTGAATATAGCACCTGAGTGTAGCACTGTTGTCAGCACAGCAGTTGACA  
GCCTCATTTGGCAGCCAACTCACTAAATATGCACATGATAAGGCCAAGTCCGCCAAGGGACGGACAAG  
ACCGAGTCTGCAGAAATCCAGGGCGTGGAGGTGTGCGCTCATATACCATCTCCGCCTCCAGCCATT  
CCCTATGAGTTGCCAAGCAGCAAAAACCAGGAGCCTGTGCACCAAATCTCAAACCAGGGAGCTTCTG  
ATGAGATCCCTGAGCTGCAGCAGCAAGTACCCACTGGGGCTTCTCTTCTCAATAAGTATCCAGTCTT  
TCCTTCCATCAACAGAAAGAACCCTGGAGGAGGAGGCTGTGGAAACCGTTGCCAAAAGGCCAGCTCACTG  
CAACTGAGCAGTATCCGGCTCTTTACCAAGACGAGACGGGCACCATGAAGACAAGTGAAGAAGATTCCA  
GAGCTCGAGCTTGTGCCGTGGAGAGGAAATTCATCGTCCGAACCAAGAAACAGGGCTCTTCCAGGGCTGG  
AAATCTGGAGGAACCATCGGACCAAGAACCAAGTTGCTGCTTGTGTTAGATCACCAACAGGCCAAAGG  
TTTGTACGCCATTTCCGGCCAACAGATGATTTGCAAACCATTTGTTGCTGTGGCCGAACAGAAAAACAAA  
CCTCTACCGACTGCAGCATTGAAACAATGGAGGTGCCAGGAGGCGATTTTCTGACCTACCAAATC  
TCTGCAAGAGTGCAGAATCCCCACAAGTCTGTGCTGGCATCTCACTGGAAGATGGGGAAGGGTGGCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC208225 protein sequence  
 Red=Cloning site Green=Tags(s)

MATEAPVNIAPPECSTVVSTAVDSLIIWQPNLSNMHMIRPKSAKGRTRPSLQKSQGVEVCAHHIPSPPPAI  
 PYELPSSQKPGACAPKSPNOGASDEIPELQQVPTGASSLNKYPVLP SINRKNLEEEAVETVAKKASSL  
 QLSSIRALYQDETGTMKTSEEDSRARACAVERKFIVRTKKQSSRAGNLEEPSDQEPRLLLAVRSPTGQR  
 FVRHFRPTDDLQTI VAVAEQKNKTSYRHCSIETMEVPRRRFSDLTKSLQECRIPHKSVLGLISLEDGEGWP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6352\\_h07.zip](https://cdn.origene.com/chromatograms/mk6352_h07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_152376

**ORF Size:** 840 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\\_152376.5](#)

**RefSeq Size:** 2987 bp

**RefSeq ORF:** 843 bp

**Locus ID:** 127733

**UniProt ID:** [Q96LJ8](#)

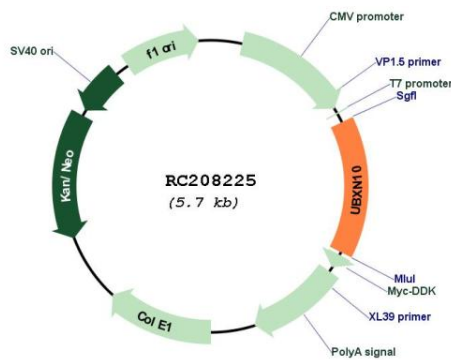
**Cytogenetics:** 1p36.12

**Domains:** UBX

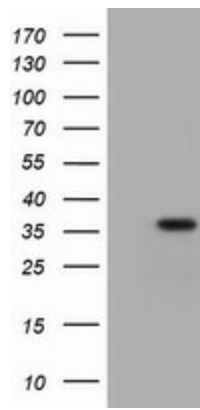
**MW:** 30.8 kDa

**Gene Summary:** VCP/p97-binding protein required for ciliogenesis (PubMed:26389662). Acts as a tethering factor that facilitates recruitment of VCP/p97 to the intraflagellar transport complex B (IFT-B) in cilia (PubMed:26389662). UBX domain-containing proteins act as tethering factors for VCP/p97 and may specify substrate specificity of VCP/p97 (PubMed:26389662). [UniProtKB/Swiss-Prot Function]

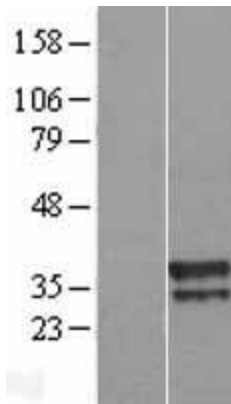
### Product images:



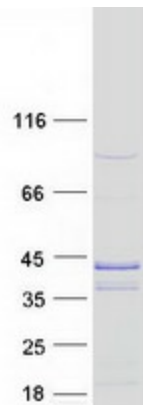
Circular map for RC208225



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY UBXN10 (Cat# RC208225, 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-UBXN10 (Cat# [TA501494]). Positive lysates [LY407623] (100ug) and [LC407623] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY407623]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208225 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UBXN10 protein (Cat# [TP308225]). The protein was produced from HEK293T cells transfected with UBXN10 cDNA clone (Cat# RC208225) using MegaTran 2.0 (Cat# [TT210002]).