

Product datasheet for **RC219137**

UBXN2B (NM_001077619) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBXN2B (NM_001077619) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UBXN2B
Synonyms:	p37
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219137 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAGGGCGGAGGCCCTGAGCCCGGCGAGCAGGAGAGGAGGTCTTCCGGGCCGCGCCTCCGAGCG
CGCGGGATTTGCAGTTGGCCTTGGCAGAATTGTATGAAGATGAGGTGAAGTGCAAATCTTCCAAGTCTAA
TAGACCTAAAGCCACAGTCTTCAAGAGCCACGGACACCACCTCAACGGTTTTACTCAAGTGAACATGAA
TACAGTGGATTAATATAGTTCGACCTTCAACTGGGAAAATTGTGAATGAACTTTCAAAGAGGCAAGGG
AACATGGGGCTGTCCCTCTGAATGAAGCCACAAGAGCTTCAGGTGATGATAAATCTAAGTCAATTTACAGG
TGGAGGATACAGATTGGGTAGTTCTTTTTGTAAGCGGTCTGAATATATCTATGGAGAAAATCAGCTGCAA
GATGTTACAGATTTTGCTAAACTGTGGAGCAATGGTTTCAGTTTAGATGATGGAGAAATGAGACCTTACA
ATGAACCAACAAATGCTCAATTTCTGGAGTCTGTTAAGAGAGGAGAGATCCCCTGGAGCTTCAGCGCCT
TGTTTACATGGTGGCCAAGTGAATTTGGATATGGAGGATCATCAGGATCAAGAATACATAAAACCTAGATTG
AGGTTCAAGGCTTTTAGTGGAGAAGGGCAAAAACCTGGAAGCCTTACACCTGAAATAGTCAGTACACCTT
CCTCTCCAGAAGAGGAGGATAAATCAATACTTAATGCAGTTGTTCTTATTGATGATTCAAGTCCAAAC
AAAAATCAAATCAGTTAGCAGATGGGAGTCGTTTGATACAAAGATTCAATAGTACACACAGGATCCTG
GATGTCGGAACTTTATTGTACAGTCTCGTCCTGAATTTGGCGCTTTGACTTTATTCTTGTGACTTCAT
TTCCGAATAAAGAGCTAACAGATGAAAGCCTGACACTGCTAGAAGCAGATATTCTAACACTGTGTTACT
CCAGCAACTAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC219137 protein sequence
Red=Cloning site Green=Tags(s)

MAEGGGPEPGEQERRSSGPRPPSARDLQLALAELYEDVKCKSSKSNRPKATVFKSPRTPPQRFYSSEHE
 YSGLNIVRPSTGKIVNELFKEAREHGAVPLNEATRSGDDKSKSFTGGGYRLGSSFCKRSEYIYGENQLQ
 DVQILLKLWSNGFSLDDGELRPYNEPTNAQFLESVKRGEIPELQRLVHGGQVNLDMEDHQDQEYIKPRL
 RFKAFSGEGQKLGSLTPEIVSTPSSPEEDKXILNAVVLIDDSVPTTKIQIRLADGSRLIQRFNSTRIL
 DVRNFIVQSRPEFAALDFILVTSFPNKELTDESLTLEADILNTVLLQQLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6462_g04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001077619

ORF Size: 993 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_001077619.1](#), [NP_001071087.1](#)

RefSeq Size: 5088 bp

RefSeq ORF: 996 bp

Locus ID: 137886

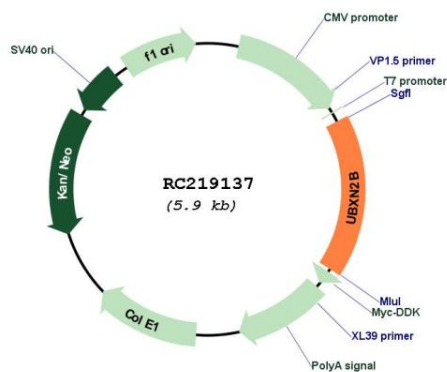
UniProt ID: [Q14CS0](#)

Cytogenetics: 8q12.1

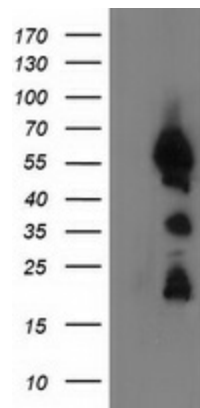
MW: 37.1 kDa

Gene Summary: Adapter protein required for Golgi and endoplasmic reticulum biogenesis (PubMed:17141156). Involved in Golgi and endoplasmic reticulum maintenance during interphase and in their reassembly at the end of mitosis (PubMed:17141156). The complex formed with VCP has membrane fusion activity; membrane fusion activity requires USO1-GOLGA2 tethering and BET1L (PubMed:17141156). VCIPI1 is also required, but not its deubiquitinating activity (PubMed:17141156). Together with NSFL1C/p47, regulates the centrosomal levels of kinase AURKA/Aurora A during mitotic progression by promoting AURKA removal from centrosomes in prophase (PubMed:23649807). Also, regulates spindle orientation during mitosis (PubMed:23649807).[UniProtKB/Swiss-Prot Function]

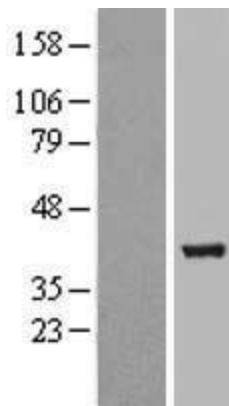
Product images:



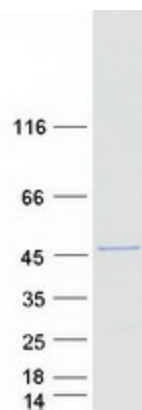
Circular map for RC219137



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY UBXN2B (Cat# RC219137, 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-UBXN2B (Cat# [TA502631]). Positive lysates [LY421462] (100ug) and [LC421462] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY421462]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219137 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UBXN2B protein (Cat# [TP319137]). The protein was produced from HEK293T cells transfected with UBXN2B cDNA clone (Cat# RC219137) using MegaTran 2.0 (Cat# [TT210002]).