

Product datasheet for **RC200703**

UBXN1 (NM_015853) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBXN1 (NM_015853) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UBXN1
Synonyms:	2B28; SAKS1; UBXD10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200703 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAGCTGACGGCTCTTGAGAGTCTCATCGAGATGGGCTTCCCAGGGGACGCGGGAGAAGGCTC
TGGCCCTCACAGGAACAGGGCATCGAGGCTGCGATGGACTGGCTGATGGAGCACGAAGACGACCCCGA
TGTGGACGAGCCTTTAGAGACTCCCTTGGACATATCCTGGGACGGGAGCCACTTCCTCAGAGCAAGGC
GGCCTTGAAGGATCTGGTCTGCTGCCGAGAAGGCAAACCCGCTTTGAGTGAAGAGGAAAGACAGGAAC
AACTAAGAGGATGTTGGAGCTGGTGGCCAGAAGCAGCGGGAGCGTGAAGAAAGAGAGGAACGGGAGGC
ATTGGAACGGGAACGGCAGCGCAGGAGACAAGGGCAAGAGTTGTCAGCAGCACGACAGCGGCTACAGGAA
GATGAGATGCGCCGGGCTGCTGAGGAGAGCGGAGGGAAAAGGCCGAGGAGTTAGCAGCCAGACAAAGAG
TTAGAGAAAAGATCGAGAGGGACAAAGCAGAGAGAGCCAAGAAGTATGGTGGCAGTGTGGGCTCTCAGCC
ACCCCAAGTGGCACCAGAGCCAGGTCTGTTCCCTCTTCTCCCAGCCAGGAGCCTCCCACCAAGCGGGAG
TATGACCAGTGTGCGATACAGGTCAGGCTGCCAGATGGGACCTCACTGACCCAGACGTTCCGGGCCCGGG
AACAGCTGGCAGCTGTGAGGCTCTATGTGGAGCTCCACCGTGGGGAGGAACTAGGTGGGGCCAGGACCC
TGTGCAATTGCTCAGTGGCTTCCCAGACGGCCCTTCTCAGAAGCTGACATGGAGCGGCTCTGCAGGAG
CTGGGTATGGCTGCAAGACTAGAAACAGGACTAGAAACTGGGGGAGTAGGGAGGCATGCCTAGGAAAAG
GAGGGATGCAAAGAGAAGGGGCTTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC200703 protein sequence
Red=Cloning site Green=Tags(s)

MAELTALESLEIEMGFPRGRAEKALALTGNQGIEAAMDWLMEHEDDPDVDEPLETPLGHILGREPTSSEQG
 GLEGGSAAGEGKPALSEEERQEQTKRMLELVAQKQREEREEREALERERQRRRQGGELSAARQLQE
 DEMRRAAEERRREKAEELAARQVRVREKIERDKAERAKKYGGSVGSQPPVPEPVPVSSPSQEPPTKRE
 YDQCRIQVRLPDGTSLTQTFRAREQLAAVRLYVELHRGEELGGGQDPVQLLSGFPRRAFSEADMERPLQE
 LGMAARLETRNRNWSREACLKGGMQREGAL

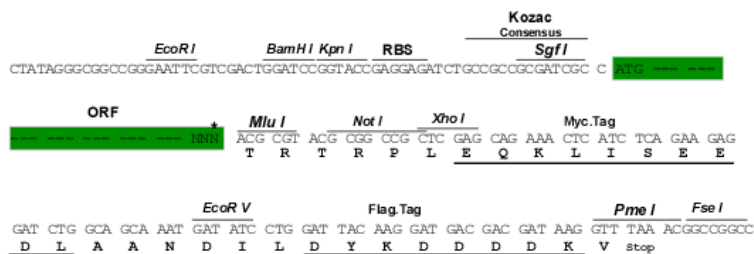
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6146_f02.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_015853

ORF Size: 936 bp

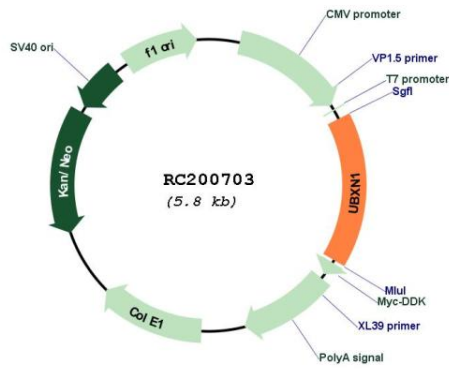
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially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

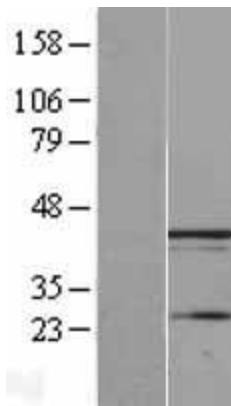
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">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_015853.5
RefSeq Size:	1363 bp
RefSeq ORF:	939 bp
Locus ID:	51035
UniProt ID:	Q04323
Cytogenetics:	11q12.3
Domains:	UBA, UBX
Protein Families:	Druggable Genome
MW:	35.1 kDa
Gene Summary:	<p>Ubiquitin-binding protein that plays a role in the modulation of innate immune response. Blocks both the RIG-I-like receptors (RLR) and NF-kappa-B pathways. Following viral infection, UBXN1 is induced and recruited to the RLR component MAVS. In turn, interferes with MAVS oligomerization, and disrupts the MAVS/TRAF3/TRAF6 signalosome. This function probably serves as a brake to prevent excessive RLR signaling (PubMed:23545497). Interferes with the TNFalpha-triggered NF-kappa-B pathway by interacting with cellular inhibitors of apoptosis proteins (cIAPs) and thereby inhibiting their recruitment to TNFR1 (PubMed:25681446). Prevents also the activation of NF-kappa-B by associating with CUL1 and thus inhibiting NF-kappa-B inhibitor alpha/NFKBIA degradation that remains bound to NF-kappa-B (PubMed:28152074). Interacts with the BRCA1-BARD1 heterodimer and regulates its activity. Specifically binds 'Lys-6'-linked polyubiquitin chains. Interaction with autoubiquitinated BRCA1 leads to the inhibition of the E3 ubiquitin-protein ligase activity of the BRCA1-BARD1 heterodimer (PubMed:20351172). Component of a complex required to couple deglycosylation and proteasome-mediated degradation of misfolded proteins in the endoplasmic reticulum that are retrotranslocated in the cytosol.[UniProtKB/Swiss-Prot Function]</p>

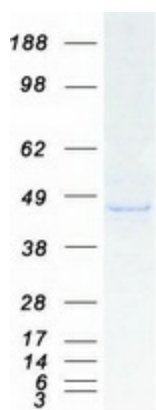
Product images:



Circular map for RC200703



Western blot validation of overexpression lysate (Cat# [LY402462]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200703 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UBXN1 protein (Cat# [TP300703]). The protein was produced from HEK293T cells transfected with UBXN1 cDNA clone (Cat# RC200703) using MegaTran 2.0 (Cat# [TT210002]).