

Product datasheet for **RG200703**

UBXN1 (NM_015853) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBXN1 (NM_015853) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UBXN1
Synonyms:	2B28; SAKS1; UBXD10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200703 representing NM_015853 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCGGAGCTGACGGCTCTTGAGAGTCTCATCGAGATGGGCTTCCCCAGGGGACGCGCGGAGAAGGCTC
 TGGCCCTCACAGGAACAGGGCATCGAGGCTGCGATGGACTGGCTGATGGAGCACGAAGACGACCCCGA
 TGTGGACGAGCCTTTAGAGACTCCCTTGGACATATCCTGGGACGGGAGCCCACTTCCTCAGAGCAAGGC
 GGCCTTGAAGGATCTGGTTCTGCTGCCGAGAAGGCAACCCGCTTTGAGTGAAGAGGAAAGACAGGAAC
 AAATAAGAGGATGTTGGAGCTGGTGGCCAGAACGAGCGGGAGCGTGAAGAAAGAGAGGAACGGGAGGC
 ATTGGAACGGGAACGGCAGCGCAGGAGACAAGGGCAAGAGTTGTCAGCAGCACGACAGCGGCTACAGGAA
 GATGAGATGCGCCGGGCTGCTGAGGAGAGGCGGAGGGAAGGCCGAGGAGTTAGCAGCCAGACAAAGAG
 TTAGAGAAAAGATCGAGAGGGACAAAGCAGAGAGAGCCAAGAAGTATGGTGGCAGTGTGGGCTCTCAGCC
 ACCCCAGTGGCACCAGAGCCAGGTCTGTTCCTCTTCTCCAGCCAGGAGCCTCCACCAAGCGGGAG
 TATGACCAAGTGTGCATACAGGTCAGGCTGCCAGATGGGACCTCACTGACCCAGACGTTCCGGGCCCGGG
 AACAGCTGGCAGCTGTGAGGCTCTATGTGGAGCTCCACGTGGGAGGAACTAGGTGGGGCCAGGACCC
 TGTGCAATTGCTCAGTGGCTTCCCAGACGGGCTTCTCAGAAGCTGACATGGAGCGGCTCTGCAGGAG
 CTGGGTATGGCTGCAAGACTAGAAACAGGACTAGAACTGGGGAGTAGGGAGGCATGCCTAGGAAAAG
 GAGGGATGCAAAGAGAAGGGCTTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG200703 representing NM_015853
 Red=Cloning site Green=Tags(s)

MAELTALESLIEMGFPRGRAEKALALTGNQGIEAMDWLMEHDDPDVDEPLETPLGHILGREPTSSEQG
 GLEGSGSAAGEGKPALSEEERQEQTKRMLELVAQKQREEREEREALERERQRRRQGQELSAARQLQE
 DEMRRAAEERRREKAEELAARQVRVREKIERDKAERAKKYGGSVGSQPPVPEPGVPSSPSQEPPTKRE
 YDQCRIQVRLPDGTSLTQTFRAREQLAAVRLYVELHRGEELGGGQDPVQLLSGFPRRAFSEADMERPLQE
 LGMAARLETRTRNWSREACLGKGMQREGAL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015853

ORF Size: 936 bp

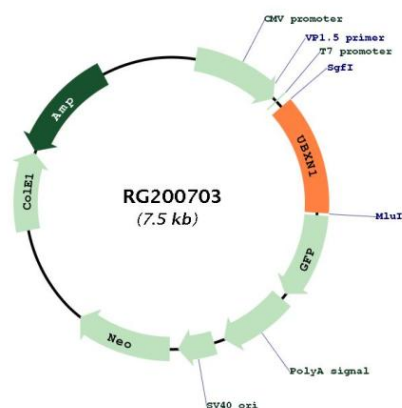
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_015853.5</u>
RefSeq Size:	1307 bp
RefSeq ORF:	939 bp
Locus ID:	51035
UniProt ID:	<u>Q04323</u>
Cytogenetics:	11q12.3
Domains:	UBA, UBX
Protein Families:	Druggable Genome
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 RG200703