

Product datasheet for SC319056

UBXN1 (NM_015853) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBXN1 (NM_015853) Human Untagged Clone
Tag:	Tag Free
Symbol:	UBXN1
Synonyms:	2B28; SAKS1; UBXD10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_015853.3

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GGCTGCTATAGAGCCGGGTGAGAGAGCGAGCGCCCGTCGGCGGGTGTGAGGGCGGGTTG
CCTCGCGCTGACCCTTCCCGCCCTCCTTCTCGTCACACACCAGGTCCCCGCGGAAGCCGC
GGTGTGCGGCGCCATGGCGGAGCTGACGGCTCTTGAGAGTCTCATCGAGATGGGCTTCCCC
AGGGGACGCGCGGAGAAGGCTCTGGCCCTCACAGGGAACAGGGCATCGAGGCTGCGATG
GACTGGCTGATGGAGCACGAAGACGACCCCGATGTGGACGAGCCTTTAGAGACTCCCTT
GGACATATCCTGGGACGGGAGCCCACTTCTCAGAGCAAGGCGGCCTTGAAGGATCTGGT
TCTGCTGCCGGAAGGCAAAACCGCTTTGAGTGAAGAGGAAAGACAGGAACAACTAAG
AGGATGTTGGAGCTGGTGGCCAGAACGAGCGGGAGCGTGAAGAAAGAGAGGAACGGGAG
GCATTGGAACGGGAACGCGCAGGAGACAAGGCAAGAGTTGTCAGCAGCACGACAG
CGGCTACAGGAAGATGAGATGCGCCGGGCTGCTGAGGAGAGGCGGAGGAAAAGGCCGAG
GAGTTAGCAGCCAGACAAAGAGTTAGAGAAAAGATCGAGAGGGACAAAGCAGAGAGGCC
AAGAAGTATGGTGGCAGTGTGGGCTCTCAGCCACCCCCAGTGGCACCAGAGCCAGGTCT
GTTCCCTCTTCTCCCAGCCAGGAGCCTCCACCAAGCGGGAGTATGACCACTGTGCGATA
CAGGTCAGGCTGCCAGATGGGACCTCACTGACCCAGACGTTCCGGGCCCGGGAACAGCTG
GCAGCTGTGAGGCTCTATGTGGAGCTCCACCGTGGGGAGGAAGTGGTGGGGCCAGGAC
CCTGTGCAATTGCTCAGTGGCTTCCCAGACGGGCTTCTCAGAAGCTGACATGGAGCGG
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AGGGAGGCATGCCTAGGAAAAGGAGGGATGCAAGAGAAGGGGCTTTGTGAACATGGTGC
AAGGCCAGGAATTTTGGGAGCAAAAACCAAGTATCCTTGTGGTTCAAGCCTGTTTTCTTC
CATCTTCAGGACTCGTGCCTTCTGCTGTTCTATTGTGGCCAAGAAATGTCCAGCTGAG
GGCCTTTGTCCATTGTCCCTCTGTGACCCCTTCATCTTTGATAAAGCACTGACATCTCC
TTCCTAATAAATAGACCCTGAGTTCTGTAAAAAAAAAAAAAAAAAAAAA
  
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Restriction Sites:	Please inquire
ACCN:	NM_015853


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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_015853.3</u> , <u>NP_056937.2</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:

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/TRAFF3/TRAFF6 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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).