

Product datasheet for **SC319458**

UBA2 (NM_005499) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBA2 (NM_005499) Human Untagged Clone
Tag:	Tag Free
Symbol:	UBA2
Synonyms:	ARX; HRIHFB2115; SAE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_005499.2
 CTCGGTCTCCCGCCTCCGCCTCCGCCGCGGCTCGTGGTTGTCCCGCCATGGCACTGTCCG
 CCGGGGCTGCCCGGGAGCTGGCTGAGGCGGTGGCCGGGGCCGGGTGCTGGTGGTGGG
 GCGGGCGGCATCGGCTGCGAGCTCCTCAAGAATCTCGTGCTCACCGGTTTCTCCACATC
 GACCTGATTGATCTGGATACTATTGATGTAAGCAACCTCAACAGACAGTTTTTGTTCAA
 AAGAAACATGTTGAAGATCAAAGGCACAGTTGCCAAGGAAAGTGTACTGCAGTTTTAC
 CCGAAAGCTAATATCGTTGCCTACCATGACAGCATCATGAACCCGACTATAATGTGGAA
 TTTTTCCGACAGTTTATACTGGTTATGAATGCTTTAGATAACAGAGCTGCCCGAAACCAT
 GTTAATAGAATGTGCCTGGCAGCTGATGTTCTCTTATTGAAAGTGAACAGCTGGGTAT
 CTTGGACAAGTAACACTACTATCAAAAAGGGTGTGACCGAGTGTTATGAGTGCATCCTAAG
 CCGACCCAGAGAACCCTTCTGGCTGTACAATTCGTAACACACCTTCAGAACCTATACAT
 TGCATCGTTTGGCAAAGTACTTGTCAACCAGTTGTTTGGGAAGAAGATGCTGATCAA
 GAAGTATCTCTGACAGAGCTGACCCTGAAGCTGCCTGGGAACCAACGGAAGCCGAAGCC
 AGAGCTAGAGCATCTAATGAAGATGGTACATTAACGATTTTCTACTAAGGAATGGGCT
 AAATCAACTGGATATGATCCAGTTAACTTTTTACCAAGCTTTTTAAAGATGACATCAGG
 TATCTGTTGACAATGGACAACTATGGCCGAAAAGGAAACCTCCAGTTCGGTTGGACTGG
 GCTGAAGTACAAAGTCAAGGAGAAGAAACGAATGCATCAGATCAACAGAATGAACCCAG
 TTAGGCCGTGAAAGACCAGCAGGTTCTAGATGTAAGAGCTATGCACGCTTTTTTCAAAG
 AGCATCGAGACTTTGAGAGTTCATTTAGCAGAAAAGGGGGATGGAGCTGAGCTCATATGG
 GATAAGGATGACCCTCTGCAATGGATTTTGTACCTCTGCTGCAAACTCAGGATGCAT
 ATTTTCAGTATGAATATGAAGAGTAGATTTGATATCAAATCAATGGCAGGGAACATTATT
 CCTGCTATTGCTACTACTAATGCAGTAATTGCTGGTTGATAGTATTGGAAGGATTGAAG
 ATTTTATCAGGAAAAATAGACCAGTGCAGAACAAATTTTTTGAATAAACAAACCAACCCA
 AGAAAGAAGCTTCTGTGCCTTGTGCACTGGATCCTCCCAACCCCAATTGTTATGTATGT
 GCCAGCAAGCCAGAGGTGACTGTGCGGCTGAATGTCCATAAAGTACTGTTCTCACCTTA
 CAAGACAAGATAGTGAAGAAAAATTTGCTATGGTAGCACCAGATGTCCAAATTGAAGAT
 GGGAAAGGAACAATCCTAATATCTTCCGAAGAGGGAGAGACGGAAGCTAATAATCACAAG
 AAGTTGTCAGAATTTGGAATTAGAAATGGCAGCCGGCTTCAAGCAGATGACTTCTCCAG
 GACTATACTTTATTGATCAACATCCTTCATAGTGAAGACCTAGGAAAGGACGTTGAATTT
 GAAGTTGTTGGTATGCCCGGAAAAAGTGGGGCCAAACAAGCTGAAGATGCTGCCAAA
 AGCATAACCAATGGCAGTGATGATGGAGCTCAGCCCTCCACCTCCACAGCTCAAGAGCAA
 GATGACGTTCTCATAGTTGATTCGGATGAAGAAGATTCTCAAATAATGCCGACGTCAGT
 GAAGAAGAGAGAAGCCGCAAGAGGAAATTAGATGAGAAAGAGAATCTCAGTGCAAAGAGG
 TCACGTATAGAACAGAAGGAAGAGCTTGATGATGTCATAGCATTAGATTGAACAGAAATG
 CCTCTAAACAGAACCCCTTACTATTTAGTTTATCTGGGCAGAACAGATTGTTATGTCC
 TTTGTTCCAAAGGGAAAAAATGACAGCAGTGACTTGAATGATTCTGCTCCCTTTGAA
 AGCATTCTTTTGTAGAACTGTTAGACACATTGCAGTATGCTGTATTGAAAGTAGGAAT
 ATAGTTTTAAAAACCTTTGAACAAAGTGTGTCATAACCAGTCATGAGATAAAACAACA
 CAATGCATGTTGCCTTTTTAATGTAATACCCTTAGGTATCATTAAATAGTTTCAAATAT
 TGTGGTTTAGTAAAGTTGATACCTGGTTATAAATATTATGCCTTTATTTTTGGCTAGAAG
 AAGAATTTTTAGCCTAGATCTAACCTTTTACTACTTAACTGATTGAAACAGATT
 CAAAGAAGTATCGAGTGCTATGCATTGAAACTGTTTTTAAATGTTAGATGGCACTATGT
 ATATTAATGTAACAATGTTAATTTACTCAAGTTTTTCAGTTTGTACCGCTGGTATGTC
 TGTGTAAGAAGCCAATTTTTGTGATTGTTACAGTTTCAGGTTATTTATATTCGATGTTT
 TGTAACCACTCAAATAACGACTATACTTATGGACCAATAAATGGCATCTGCATTCTGTT
 AAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_005499

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_005499.2</u> , <u>NP_005490.1</u>
RefSeq Size:	2682 bp
RefSeq ORF:	1923 bp
Locus ID:	10054
UniProt ID:	<u>Q9UBT2</u>
Cytogenetics:	19q13.11
Domains:	UBACT, ThiF
Protein Pathways:	Ubiquitin mediated proteolysis
Gene Summary:	Posttranslational modification of proteins by the addition of the small protein SUMO (see SUMO1; MIM 601912), or sumoylation, regulates protein structure and intracellular localization. SAE1 (MIM 613294) and UBA2 form a heterodimer that functions as a SUMO-activating enzyme for the sumoylation of proteins (Okuma et al., 1999 [PubMed 9920803]). [supplied by OMIM, Mar 2010]