

Product datasheet for **SC320329**

UBA1 (NM_003334) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBA1 (NM_003334) Human Untagged Clone
Tag:	Tag Free
Symbol:	UBA1
Synonyms:	A1S9; A1S9T; A1ST; AMCX1; CFAP124; GXP1; POC20; SMAX2; UBA1A; UBE1; UBE1X; VEXAS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_003334.2
 CTTGTACGACAGAGGTGGTTTGGCTCTTCCGTTGCCCGTGGCTTCAGCTCATCTTTGGCA
 GGAAGGCGAGGCTTCGCCCCGGCACAGGGGATGTCCAGCTCGCCGCTGTCCAAGAAACGT
 CGCGTGTCCGGGCTGATCCAAAGCCGGTTCTAACTGCTCCCCTGCCAGTCCGTGTTG
 TCCGAAGTGCCCTCGGTGCCAACCAACGAATGGCCAAGAACGGCAGTGAAGCAGACATA
 GACGAGGGCCTTTACTCCCGCAGCTGTATGTGTTGGGCCATGAGGCAATGAAGCGGCTC
 CAGACATCCAGTGTCTGGTATCAGGCCTGCGGGGCTGGGCGTGGAGATCGCTAAGAAC
 ATCATCCTTGGTGGGTCAAGGCTGTTACCCTACATGACCAGGGCACTGCCAGTGGGCT
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 TCACAGCCCCGCCTCGTGAGCTCAACAGCTATGTGCTGCTCACTGCCTACACTGGACCC
 CTCGTTGAGGACTTCCTTAGTGGTTTCCAGGTGGTGGTGTCTACCAACACCCCCCTGGAG
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 TCCAATGGGGAGCAGCCACTCAGTGCTATGGTTTCTATGGTTACCAAGGACAACCCCGGT
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 TCAGAAGTACAGGGCATGGTTGAACTCAACGGAATCAGCCCATGGAGATCAAAGTCTG
 GGTCTTATACCTTTAGCATCTGTGACACCTCCAATTCTCCGACTACATCCGTGGAGGC
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 AAGGCCTGCTCCGGGAAGTTCATGCCATCATGCAGTGGCTATACTTTGATGCCCTTGAG
 TGTCTCCCTGAGGACAAAGAGGTCCTCACAGAGGACAAGTGCCTCCAGCGCCAGAACCGT
 TATGACGGCAAGTGGCTGTGTTTGGCTCAGACCTGCAAGAGAAGCTGGGCAAGCAGAAG
 TATTTCTGGTGGTGGCGGGGCCATTGGCTGTGAGCTGCTCAAGAACTTTGCCATGATT



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GGGCTGGGCTGCGGGGAGGGTGGAGAAATCATCGTTACAGACATGGACACCATTGAGAAG
TCAAATCTGAATCGACAGTTTCTTTTCCGGCCCTGGGATGTCACGAAGTTAAAGTCTGAC
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CGTGTGGGTCTGACACGGAGCGCATCTATGATGACGATTTTTTCCAAAACCTAGATGGC
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TCCCAGGGCGTGTCCATGCTCTATTCTTCTTTCATGCCAGCTGCCAAGCTCAAGGAACGG
TTGGATCAGCCGATGACAGAGATTGTGAGCCGTGTGCGAAGCGAAAGCTGGGCCGCCAC
GTGCGGGCGCTGGTGCTTGTGAGCTGTGCTGTAACGACGAGAGCGGGCAGGATGTCGAGGTT
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ACCCCTCTCCACACCCCTCCAGCCAGGGTCCCATTTGGCTTCTGGCAGTGGCCCAAC
TAGCCAAGTCTGGTGTTCCCTCATCATCCCCTACCTGAACCCCTCTTGCCACTGCCTTC
TACCTTGTGTTGAAACCTGAATCCTAATAAAGAATTAATAACTCCCAAAAAAAAAAAAAA
AAA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_003334
- 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:

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_003334.2](#), [NP_003325.2](#)

RefSeq Size: 3504 bp

RefSeq ORF: 3177 bp

Locus ID: 7317

UniProt ID: [P22314](#)

Cytogenetics: Xp11.3

Domains: UBACT, ThiF

Protein Pathways: Parkinson's disease, Ubiquitin mediated proteolysis

Gene Summary: The protein encoded by this gene catalyzes the first step in ubiquitin conjugation to mark cellular proteins for degradation. This gene complements an X-linked mouse temperature-sensitive defect in DNA synthesis, and thus may function in DNA repair. It is part of a gene cluster on chromosome Xp11.23. Alternatively spliced transcript variants that encode the same protein have been described. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.