

Product datasheet for **MC229323**

Uba1 (NM_001276317) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Uba1 (NM_001276317) Mouse Untagged Clone
Tag: Tag Free
Symbol: Uba1
Synonyms: A1; A1S9; Sb; Sbx; Ube-1; Ube1x
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229323 representing NM_001276317
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCCAGCTCGCCGCTGTCCAAGAAACGTCGCGTGTCCGGCCGATCCAAAGCCGGTTCTAACTGCT
CCCCTGCACAGTCTGCGCTGTCCGAAGTGTCTCAGTGCCAACCAACGGAATGGCGAAGAACGGCAGTGA
AGCAGACATAGACGAGAGCCTTTACTCCGGCAGCTGTACGTTTTGGGCCATGAGGCAATGAAAATGCTC
CAGACATCCAGCGTCCTTGTCTCAGGCTTGCGGGGCTTGGGTGTAGAAATTGCTAAGAACATCATCCTTG
GTGGGGTCAAGGCTGTCACCTACATGACCAAGGAACTACCCAGTGGGCTGATCTCTCTCCAGTTTTTA
CCTTCGGGAGGAGGACATTGGTAAAAATCGAGCGGAGGTATCCAGCCCCGACTTGCTGAACTCAACAGC
TATGTACTGTCACTGCCTACACTGGGCCTTGTGCGAGGACTTCCTTAGTAGCTCCAGGTGGTGGTCC
TCACCAACAGCCCCCTGGAAGCCCAGCTGCGAGTGGGGGAGTTCTGTATAGCCGTGGTATCAAGCTAGT
GGTGGCAGATACAAGAGGCTGTTTGGGCAACTTTTCTGTGATTTGGAGAGGAAATGGTCTCACAGAT
TCCAATGGGGAGCAGCCACTCAGTGTATGGTTTCAATGGTCACCAAGGACAACCCCGGTGGTGGTACCT
GCCTTGATGAGGCCGACATGGCTTTGAGACTGGTGACTTCGTCATTCTCAGAAGTACAGGGCATGAT
CCAACCTAATGGATGTCAGCCCATGGAGATCAAAGTGCTGGGTCTTATACCTTTAGTATCTGTGACT
TCCAACCTCTCTGACTACATCCGTGGAGGCATCGTCAGTCAGGTCAAAGTACCGAAAAAGATTAGTTTTA
AATCCTTGCCAGCATCACTGGTAGGCCTGACTTTGTGATGACTGACTTTGCCAAGTATTCTCGCCCTGC
CCAACCTGCACATTGGCTTCCAAGCTCTGCACCAATTCTGTGCTCTGCACAACCAACCACCTCGACCACGA
AATGAGGAAGATGCAACAGAGCTGGTGGCCCTGGCTCAGGCTGTAACCGCTCGGTCCCCACCTTCAGTAA
AACAGAACAGCTTGGATGAAGACCTTATCGGAAGCTAGCTTATGTTGCTGCTGGGGACCTGGCACCCAT
AAATGCTTTCATTGGGGCCTTGTGCCAGGAAGTCATGAAGGCCTGCTCTGAAAAGTTTATGCCATC
ATGCACTGGTGTACTTTGATGCTCTTGAATGTCTCCAGAGGACAAAGAGGCTCTGACAGAGGAGAAGT
GCCTCCCACGTGAGAACCCTTACGATGGCAGGTAGCTGTATTTGGGTGACTTTCAGGAGAAGCTGAG
CAAGCAAAAGTACTTCTGGTGGGTGCAGGGGCCATTGGCTGTGAATTGCTCAAGAACTTTGCCATGATT
GGGCTGGGTTGTGGAGAGGGTGGAGAGGTGCTGGTCACAGACATGGACACCATTGAGAAATCAAATCTGA



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ACCGACAGTTTCTCTCCGGCCCTGGGATGTCACGAAGTTAAAGTCTGACACGGCCGCTGCAGCTGTGCG
CCAGATGAATCCTTACATCCAGGTGACAAGCCACCAGAACCCTGTAGGTCTGACACTGAGCGCATCTAT
GATGATGATTTCTTCCAAAATTTGGATGGTGTGGCCAATGCTCTGGACAACATAGATGCCCGCATGTACA
TGGATCGCCGATGTGTACTATCGGAAGCCACTGCTAGAGTCTGGCACACTGGGCACAAAGGGCAACGT
GCAGGTGGTAATCCCCTTCTGACAGAACTCTACAGCTCTAGCCAGGATCCACCAGAGAAATCCATCCCC
ATTTGTACCCTGAAAACTTTCCCAATGCCATCGAACACACTCTTCAGTGGGCCCGGGATGAATTTGAAG
GCCTTTTCAAGCAGCCAGCAGAAAAATGTTAATCAGTACCTCACAGACTCCAAATTTGTGGAGCGGACATT
GCGGCTGGCTGGTACCCAGCCATTGGAGGTGCTGGAGGCTGTGCAGCGCAGCCTGGTGTTCAGCGACCA
CAGACTTGGGGAGACTGTGTGACCTGGGCTGCCACCCTGGCACACCCAGTACTGTAACAAACATCCGGC
AACTGCTGCACAACCTTCTCTGACCAGCTCACCAGCTCAGGGGCCCTTTCTGGTCTGGACCCAAACG
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CTTTTTGCCAGACCTATGGGTTGACTGGATCCCAAGACCAGCTGCTGTGGCCTCACTCTGCAGTCAG
TACAAGTCCCAGAGTTCACCCCAAGTCTGGTGTCAAGATTCATGTTTCTGACCAGGAGTTCAGAGTGC
CAATGCCTCTGTTGATGACAGCCGTCTTGAGGAGCTCAAAGCCACATTGCCAGCCAGACAAGTTACCC
GGATTTAAGATGTACCCATTGATTTTGAAGGATGATGACAGCAATTTCCACATGGATTTTCATTGTGG
CTGCATCCAATCTTCGGGCCGAAAACTATGATATTTCCCTGCAGACCGACACAAGAGCAAGCTGATTGC
AGGGAAGATCATCCAGCCATTGCCACAACCACAGCTGCTGTGGTTGGCCTTGTGTGTCTGGAGCTCTAC
AAGGTAGTTCAAGGGCACCAACAGCTCGATTCCTACAAAATGGTTTCTGAACTTGGCCCTGCCCTTCT
TTGGGTTTTCTGAACCTCTTGTGCACCTCGTCACCAGTACTATAATCAAGAGTGACATTTGGGATCG
CTTTGAAGTACAAGGGCTGCAGCCTAATGGTGAGGAGATGACCCTCAAGCAGTTCCTTGATTACTTTAAG
ACAGAGCACAATTTGGAGATCACCATGCTGTCCAGGGCGTGTCCATGCTCTATTCTTTCTCATGCCAG
CTGCTAAGCTCAAGGAACGATTGGATCAGCCGATGACAGAGATTGTGAGCCGAGTGTCAAAGAGAAAAGCT
GGGCCCCATGTGCGGGCACTGGTGTGAGCTGTGCTGCAACGATGAAAGCGGGCAGGACGTGAGGTC
CCTTATGTCGGATATACCATTGCTGA
    
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001276317
- Insert Size:** 3177 bp
- 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:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001276317.1](#), [NP_001263246.1](#)

RefSeq Size: 4068 bp

RefSeq ORF: 3177 bp

Locus ID: 22201

UniProt ID: [Q02053](#)

Cytogenetics: X 16.15 cM

Gene Summary: This gene encodes a member of the ubiquitin-activating E1 family. The encoded protein initiates the ubiquitin activation and transfer cascade, catalyzing the first step in ubiquitin conjugation to mark cellular proteins for proteasome degradation. Ubiquitin activating enzymes use ATP to form a thioester between a conserved catalytic cysteine of the enzyme and the C-terminal carboxylate of ubiquitin. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013]
Transcript Variant: This variant (4) differs in the 5' UTR compared to variant 3. Variants 2, 3, and 4 encode the same isoform (2).