

Product datasheet for **MC223384**

Uba1 (NM_001136085) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Uba1 (NM_001136085) 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: >MC223384 representing NM_001136085
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCAGCTCGCCGCTGTCCAAGAAACGTCGCGTGTCCGGCCGATCCAAAGCCGGTTCTAACTGCT
 CCCCTGCACAGTCTGCGCTGTCCGAAGTGTCTCAGTGCCAACCAACGGAATGGCGAAGAACGGCAGTGA
 AGCAGACATAGACGAGAGCCTTTACTCCGGCAGCTGTACGTTTTGGGCCATGAGGCAATGAAAATGCTC
 CAGACATCCAGCGTCCTTGTCTCAGGCTTGCAGGGCTTGGGTGTAGAAATGCTAAGAACATCATCCTTG
 GTGGGGTCAAGGCTGTACCCCTACATGACCAAGGAACTACCCAGTGGGCTGATCTCTCTCCAGTTTTA
 CCTTCGGGAGGAGGACATTGGTAAAAATCGAGCGGAGGTATCCAGCCCCGACTTGCTGAACTCAACAGC
 TATGTACTGTCACTGCCTACACTGGGCCTTGTGCGAGGACTTCCTTAGTAGCTCCAGGTGGTGGTCC
 TCACCAACAGCCCCCTGGAAGCCAGCTGCGAGTGGGGGAGTTCTGTATAGCCGTGGTATCAAGCTAGT
 GGTGGCAGATACAAGAGGCTGTTTGGGCAACTTTTCTGTGATTTGGAGAGGAAATGGTCTCACAGAT
 TCCAATGGGGAGCAGCCACTCAGTGTATGGTTCAATGGTCACCAAGGACAACCCCGGTGGTGGTACCT
 GCCTTGATGAGGCCGACATGGCTTTGAGACTGGTGACTTCGTCATTCTCAGAAGTACAGGGCATGAT
 CCAACTCAATGGATGTCAGCCCATGGAGATCAAAGTGTGGTTCCTTATACCTTTAGTATCTGTGACT
 TCCAACCTCTCTGACTACATCCGTGGAGGCATCGTCAGTCAGGTCAAAGTACCGAAAAAGATTAGTTTTA
 AATCCTTGCCAGCATCACTGGTAGAGCCTGACTTTGTGATGACTGACTTTGCCAAGTATTCTCGCCCTGC
 CCAACTGCACATTGGCTTCCAAGCTCTGCACCAATTCTGTGCTCTGCACAACCAACCACCTCGACCACGA
 AATGAGGAAGATGCAACAGAGCTGGTGGCCCTGGCTCAGGCTGTAACCGCTCGGTCCCCACCTTCAGTAA
 AACAGAACAGCTTGGATGAAGACCTTATCGGAAGCTAGCTTATGTTGCTGCTGGGGACCTGGCACCCAT
 AAATGCTTTCATTGGGGCCTTGTGCCAGGAAGTCATGAAGGCTGCTCTGAAAAGTTTATGCCATC
 ATGCACTGGTTGACTTTGATGCTCTTGAATGTCTCCAGAGGACAAAGAGGCTCTGACAGAGGAGAAGT
 GCCTCCCACGTGAGAACCCTTACGATGGCAGGTAGCTGTATTTGGGTGACTTTCAGGAGAAGCTGAG
 CAAGCAAAAGTACTTCTGGTGGGTGCAGGGGCCATTGGCTGTGAATTGCTCAAGAACTTTGCCATGATT
 GGGCTGGGTTGTGGAGAGGGTGGAGAGGTCGTGGTCACAGACATGGACACCATTGAGAAATCAAATCTGA



ACCGACAGTTTCTCTCCGGCCCTGGGATGTCACGAAGTTAAAGTCTGACACGGCCGCTGCAGCTGTGCG
 CCAGATGAATCCTTACATCCAGGTGACAAGCCACCAGAACCCTGTAGGTCTGACACTGAGCGCATCTAT
 GATGATGATTTCTTCCAAAATTTGGATGGTGTGGCCAATGCTCTGGACAACATAGATGCCCGCATGTACA
 TGGATCGCCGATGTGTACTATCGGAAGCCACTGCTAGAGTCTGGCACACTGGGCACAAAGGGCAACGT
 GCAGGTGGTAATCCCCTTCTGACAGAACTCTACAGCTCTAGCCAGGATCCACCAGAGAAATCCATCCCC
 ATTTGTACCCTGAAAACTTTCCCAATGCCATCGAACACACTTTCAGTGGGCCCGGGATGAATTTGAAG
 GCCTTTTCAAGCAGCCAGCAGAAAATGTTAATCAGTACCTCACAGACTCCAAAATTTGTGGAGCGGACATT
 GCGGCTGGCTGGTACCCAGCCATTGGAGGTGCTGGAGGCTGTGCAGCGCAGCCTGGTGTTCAGCGACCA
 CAGACTTGGGGAGACTGTGTGACCTGGGCTGCCACCCTGGCACACCCAGTACTGTAACAAACATCCGGC
 AACTGCTGCACAACCTTCTCTGACCAGCTCACCAGCTCAGGGGCCCTTTCTGGTCTGGACCCAAACG
 CTGTCCACACCCACTTACTTTTGTGTTAAACAATACATTGCATCTGGATTATGTGATGGCTGCTGCCAAC
 CTTTTTGGCCAGACCTATGGGTTGACTGGATCCCAAGACCGAGCTGCTGTGGCCTCACTCTGCAGTCAG
 TACAAGTCCCAGAGTTCACCCCAAGTCTGGTGTCAAGATTCATGTTTCTGACCAGGAGTTCAGAGTGC
 CAATGCCTCTGTTGATGACAGCCGTCTTGAGGAGCTCAAAGCCACATTGCCAGCCAGACAAGTTACCC
 GGATTTAAGATGTACCCATTGATTTTGAAGGATGATGACAGCAATTTCCACATGGATTTTCATTGTGG
 CTGCATCCAATCTTCGGGCCGAAAACATGATATTTCCCTGCAGACCGACACAAGAGCAAGCTGATTGC
 AGGGAAGATCATCCAGCCATTGCCACAACCACAGCTGCTGTGGTTGGCCTTGTGTGTCTGGAGCTCTAC
 AAGGTAGTTCAAGGGCACCAACAGCTCGATTCCTACAAAATGGTTTCTGAACTTGGCCCTGCCCTTCT
 TTGGGTTTTCTGAACCTTGTGTCACCTGTCCACAGTACTATAATCAAGAGTGACATTGTGGGATCG
 CTTTGAAGTACAAGGGCTGCAGCCTAATGGTGAGGAGATGACCCTCAAGCAGTTCCTTGATTACTTTAAG
 ACAGAGCACAATTTGGAGATCACCATGCTGTCCAGGGCGTGTCCATGCTCTATTCTTTCTCATGCCAG
 CTGCTAAGCTCAAGGAACGATTGGATCAGCCGATGACAGAGATTGTGAGCCGAGTGTCAAAGAGAAAAGCT
 GGGCCGCCATGTGCGGGCACTGGTGTGAGCTGTGCTGCAACGATGAAAGCGGGCAGGACGTTCGAGGTC
 CCTTATGTCGGATATACCATTGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001136085
- 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).
- 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_001136085.2](#), [NP_001129557.1](#)
- RefSeq Size:** 4073 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 (2) differs in the 5' UTR compared to variant 3. Variants 2, 3, and 4 encode the same isoform (2).