

Product datasheet for MC223393

Uba1 (NM_009457) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Uba1 (NM_009457) 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:	>MC223393 representing NM_009457 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCTCTATTCAGGCGTCTATGGTATACCCAGACCCGGCCCTCTAAGGCCCGCGCTTCGAGCT
CCGCGCAAACCTGGTCTTTTTGCACGATCGAGGTGGTTTGGCTCTCCGTTGCCCTGTGGCTTCGGCTT
GTCTCCAGAAGGAAGGCGAGGCTTCGCCCCAGCACTGGGGATGTCCAGCTCGCCGCTGTCCAAGAAACGT
CGCGTGTCCGGGCTGATCCAAAGCCGGTCTAACTGCTCCCTGCACAGTCTGCGCTGTCCGAAGTGT
CCTCAGTGCCAACCAACGGAATGGCGAAGAACGGCAGTGAAGCAGACATAGACGAGAGCCTTTACTCCCG
GCAGCTGTACGTTTTGGCCATGAGGCAATGAAAATGCTCCAGACATCCAGCGTCTTGTCTCAGGCTTG
CGGGGCTTGGGTGTAGAAATTGCTAAGAATCATCCTTGGTGGGGTCAAGGCTGTACCCTACATGACC
AAGGAATACCCAGTGGGCTGATCTCCTCCAGTTTTACCTTCGGGAGGAGGACATTGGTAAAAATCG
AGCGGAGGTATCCAGCCCCGACTTGTGAACTCAACAGCTATGTACCTGCTACTGCCTACACTGGGCTC
CTTGTGAGGACTTCTTAGTAGCTTCCAGTGGTGGTCCCTACCAACAGCCCCGGAAGCCAGCTGC
GAGTGGGGGAGTTCTGTATAGCCGTGGTATCAAGCTAGTGGTGGCAGATACAAGAGCCCTGTTTGGGCA
ACTTTTCTGTGATTTTGGAGAGGAAATGGTCTCACAGATTCCAATGGGGAGCAGCACTCAGTGTATG
GTTTCAATGGTACCAAGGACAACCCCGGTGTGGTTACCTGCCTTGATGAGGCCGACATGGCTTTGAGA
CTGGTGACTTCGTCTCATTCTCAGAAGTACAGGGCATGATCCAATCAATGGATGTGAGCCATGGAGAT
CAAAGTGTGGTCTTATACCTTTAGTATCTGTGACACTTCCAATCTCTGACTACATCCGTGGAGGC
ATCGTCAGTCAGGTCAAAGTACCGAAAAGATTAGTTTTAAATCCTTGCCAGCATCACTGGTAGAGCCTG
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CCAATTCTGTGCTCTGCACAACCAACCTCGACCACGAAATGAGGAAGATGCAACAGAGCTGGTGGGC
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GGAAGCTAGCTTATGTTGCTGCTGGGGACTGGACCCATAAATGCTTTCATTGGGGCCTTGCTGCCCA
GGAAGTCATGAAGGCTGCTCTGAAAAGTTATGCCCATCATGCAGTGGTTGACTTTGATGCTCTTGAA
TGCTCCAGAGGACAAAGAGGCTCTGACAGAGGAGAAGTGCCTCCACGTGAGAACCCTTACGATGGGC



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AGGTAGCTGTATTTGGGTGAGCTTTTCAGGAGAAGCTGAGCAAGCAAAAGTACTTCTGGTGGGTGCAGG
GGCCATTGGCTGTGAATTGCTCAAGAACTTTGCCATGATTGGGCTGGGTTGTGGAGAGGGTGGAGAGGTC
GTGGTCACAGACATGGACACCATTGAGAAATCAAATCTGAACCGACAGTTTCTCTCCGGCCCTGGGATG
TCACGAAGTTAAAGTCTGACACGGCCGCTGCAGCTGTGCGCCAGATGAATCCTTACATCCAGGTGACAAG
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CTACAGCTCTAGCCAGGATCCACCAGAGAAATCCATCCCAATTTGTACCCTGAAAAACTTTCCCAATGCC
ATCGAACACACTTTCAGTGGGCCCCGGATGAATTTGAAGGCCTTTTCAAGCAGCCAGCAGAAAAATGTTA
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TCACCAGCTCAGGGGCCCTTTCTGGTCTGGACCCAAACGCTGTCCACACCCTACTTTTGATGTTAA
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TCCCAAGACCGAGCTGCTGTGGCCTCACTCCTGCAGTCAAGTCCCAGAGTTCACCCCAAGTCTG
GTGTCAAGATTGATGTTTCTGACCAGGAGTTGCAGAGTGCCAATGCCTCTGTTGATGACAGCCGCTTGA
GGAGCTCAAAGCCACATTGCCAGCCAGACAAGTTACCCGATTTAAGATGTACCCATTGATTTTGAG
AAGGATGATGACAGCAATTTCCACATGGATTTCAATGTGGCTGCATCCAATCTTCGGGCCGAAAATATG
ATATTTCCCTGCAGACCACACAAGAGCAAGCTGATTGCAGGGAAGATCATCCAGCCATTGCCACAAC
CACAGTCTGTGGTTGGCCTTGTGTCTGGAGCTCTACAAGGTAGTTCAAGGGCACCAACAGCTCGAT
TCCTACAAAAATGGTTTCTGAACCTGGCCCTGCCCTTCTTTGGGTTTCTGAACCTCTTGTGCACCTC
GTCACCAGTACTATAATCAAGAGTGGACATTGTGGATCGCTTTGAAGTACAAGGGCTGCAGCCTAATGG
TGAGGAGATGACCCTCAAGCAGTTCCTTGATTACTTTAAGACAGAGCACAATTTGGAGATCACCATGCTG
TCCAGGGCGTGTCCATGCTCTATTCTTTTCATGCCAGCTGCTAAGCTCAAGGAACGATTGGATCAGC
CGATGACAGAGATTGTGAGCCGAGTGTCAAGAGAAAGCTGGGCCGCCATGTGCGGGCACTGGTCTTGA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_009457
- Insert Size:** 3357 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_009457.4](#), [NP_033483.2](#)

RefSeq Size: 4068 bp

RefSeq ORF: 3357 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 (1) uses an alternate 5' exon structure and an upstream start codon, compared to variant 3. The encoded isoform (1) has a longer N-terminus, compared to isoform 2.