

Product datasheet for MC223347

Uba6 (NM_172712) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Uba6 (NM_172712) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Uba6
Synonyms:	4930542H01; 5730469D23Rik; AU021846; AW124799; E1-L2; Ube112
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223347 representing NM_172712 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCGGTCCGAGCCGTTGGCTGTGCTTTCCTGTGAAGAGGCGTCTGCTCCTCTGGGGAGCCTGCC
GTGCAAGTAAAAATTTACCTACCATGACAACAGAATCTTTGGAAATCGATGATGGATTATACAGTCGCCA
GAGATATGTTCTTGGTGACACAGCAATGCAGAAGATGGCCAAGTCTGTGCTTCTTAAGTGGTATGGGT
GGTCTTGGAGTGGAAATTGCAAAGAATCTTGTCTTGCAGGGATTAAGGCCCTAACAAATTCATGATACAA
AAAAATGCCAAGCATGGGATCTAGGGACCAATTTCTCCTGTGTGAAGATGATGTTGTAATGAGAGAAA
CAGGGCTGAAGCTGTACTTCATCGTATTGCAGAACTAAATCCATATGTTCAAGTCTCATCATCCTCTGCC
CCTCTTGATGAAACCACAGACCTCTCTTCTTAGAAAAATACAGTGTGTAGTATTGACTGAAATAAAAC
TGACATTACAAAAGAAGATCAACAATTTTGCATTCTCATTGCCCTCCAATTAAGTTCATTAGTGCAGA
TGTACATGGAATTTGGTCCAGGTTGTTTTGTGATTTTGGTGATGAATTTGAAGTTCAGATACAACAGGA
GAAGAACAAAAGAAATTTTCAATTTCAAACATAACGCAAGCTAATCCAGTATTGCACTTGCCTTGAAA
GTCATCCTCACAAGCTTGAGACAGGACAGTTCCTAACATTTGAGAAAATTCATGGAATGACAGGCTTAAA
TGGATCTGTACAACAGATAACTGTCATATCACCATTTTCTCAGCATTGGTGATACTACAAAACCTGGAC
CCATATTTACATGGAGGCATAGCCGTGCAGGTGAAGACTCCTAAAAACATTCTGCTTTGAACCCCTGGAGA
GCCAGATAAAACATCCAAGGTGCCTTATTGCAGATTTTAGCAAACCTGAGGCACCTTTAGAGATTCATCT
CGCTATGCTTGCCTTGGACCAGTTTCAGGAGAATAACCGTAAGCCAAATATCAGATGTCAGCAGGAT
TCAGATGAACTATTGAAGCTAACAGTATCTATAAATGAAACCTTGAAGAGAAGCCTGAAGTGAATGCTG
ACATTGTGCACTGGCTTTCGTGGACTGCCAAGGCTTTTACCACCCTCGTGTGCACTTGGAGGTGT
TGCTAGCCAAGAAGTCTTAAAAGCTGTGACGGGAAGTCTCGCCCTTGTGCAATGTTGTACCTTGAA
GCAGCAGATACTGTGGAATCCCTAGGCAATCCTGGGCATGAAGAGTTTCTCCACGAGGAGATAGATATG
ATGCCATACGTGCTGCATTGGAATACATTGTGTCAGAAGCTACAAAATTTGAATATCTTCTAGTAGG
ATGTGGTGCATAGGCTGTGAAATGTTAAAAATTTTGCATTACTGGGTGTTGGTACAGGCAGAGAGAAA
GGAATGTTAACAGTTACAGATCCTGACTTGATAGAAAAATCCAATTTAAACAGACAGTTCCTGTTTCGTC



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CTCATCACATACAGAAACCTAAAAGCTATACTGCTGCTGAAGCAACTCTGAAAATAAATCCTCAATTAAA
 AATAGATGCACACCTGAACAAAGTTTGTCCAGCCACTGAGAGTATATACAGTGATGAATTTTACACTAAG
 CAAGATATCATTATTACAGCACTAGATAATGTGGAAGCCAGGAGATATGTAGACAGTCGCTGTTTAGCAA
 ATCTACGGCCTCTCTTAGATTCTGGAACAATGGGCACCAAGGGACATACTGAAATATCGTACCTCAATT
 AACTGAATCTTATAATAGTCATCGAGACCCCGAAGAGGAAAATACCATTTTGCACCTAAAGTCCTTT
 CCAGCAGCTATCGAACATACTATCCAGTGGCAAGAGACAAGTTTGAAGTTCCTTCTCCACAAACCTT
 CACTGTTTAAACAAGTTTTGGCAAGCATATCCCTCTGCAGAAGATGTCTTACAGAAGATACAAAATGGCAA
 AAGTTTTAGAAGGCTGTTTTCAAGTTATTAAGCTACTTAGCAGAAGACCTAGAATTTGGTCCCAAGTGTA
 GAGTTAGCAAGACTAAAGTTTGA AAAAATACTTTAACCATAAAGGCTCTGCAGCTTCTTCACTGTTTTCTC
 TTGAGACAAGACTAAAAGATGGCAGTTTGTGGCAATCACAAAAAGGCCGCTTCTCCAATAAAATT
 TGATTTAAATGAACCTTTGCACCTCAGTTTTCTCAGAGTGCTGCAAACTATATGCTACAGTATATTGT
 ATTCCGTTTTAGAAAAGGACTTATCAGTGAATAGCCTCATGGACATTCTTTCAGAAGTAAAATTGAGG
 AATTCAAGCCTTCCAACAAGTTGTTCAAACAGACGAACTGCAAGGAAGCCGACCATGTTCTGTCTC
 CAGTGAAGATGAAAGGAATGCTGTTTTCCAAGTAGAAGAGGCTCTTCTCTAACAAAGCTACCAAAAGT
 GACCTTCAGATGACAGTCTTTTCAATTTGAAAAGATGATGACCGTAATGGACACATAGATTTTCATCACAG
 CTGCTTCCAACCTTCGAGCCAAAATGTATAGCATTGAACCAAGCTGACCGTTTTAAAATAAACGCATAGC
 TGGTAAAATTATACCTGCTATAGCAACATCTACTGCTGCAGTTTCTGGCTTGGTTGCTTTGGAGATGATC
 AAGGTAGCTGGTGGCTATCCCTTCGACGCTTACAAAACTGTTTCCTTAATTTAGCCATTCCAATAATAG
 TGTTTACAGAGACATCTGAAGTAAGAAAACTGAAATCAGAAATGGAATATCATTTACAATTTGGGACAG
 ATGGACTGTACATGAAAAAGAAGATTTACCCTCTCAGATTTTATAAATGCTGTCAAAGAAAACTATGGA
 ATTGAGCCGACAAATGGTGGTGCAGGGAGTCAAATGCTTTATGTCCCTGTAATGCCAGGTCATGCAAAAA
 GGCTAAAGTTAACAATGCACAACTTGTGAAGCCTTCCACTGAGAAGAAATATGTGGATCTTACTGTGTC
 ATTTGCCCCAGACGCTGATGGAGATGAAGATTTGCCCGCCCTCCAGTGAGATACTACTTCAGTCATGAC
 ACTAATGAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_172712

Insert Size:

3162 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_172712.2, NP_766300.1

RefSeq Size:

5101 bp

RefSeq ORF: 3162 bp

Locus ID: 231380

UniProt ID: [Q8C7R4](#)

Cytogenetics: 5 E1

Gene Summary: Activates ubiquitin by first adenylating its C-terminal glycine residue with ATP, and thereafter linking this residue to the side chain of a cysteine residue in E1, yielding a ubiquitin-E1 thioester and free AMP. Specific for ubiquitin, does not activate ubiquitin-like peptides. Differs from UBE1 in its specificity for substrate E2 charging. Does not charge cell cycle E2s, such as CDC34 (By similarity). Essential for embryonic development. Required for UBD/FAT10 conjugation.[UniProtKB/Swiss-Prot Function]