

## Product datasheet for **MC223394**

### Uba1y (NM\_011667) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Uba1y (NM\_011667) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Uba1y  
**Synonyms:** A1s9Y-1; Sby; Ube-2; Ube1ay; Ube1y; Ube1y-1; Ube1y1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC223394 representing NM\_011667  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCCAGCTCAGTCCTGTCCAAGAAACGCAAAGTGTCTGGACCTGACTCTAGTCTGGATTCTAGTTGGT  
 CTCCTACCTATTCTGTGATGTTTGGCGTGCCCCAGGGCCAACCAACGAAATGTCAAAAAATAAGGAAAT  
 GGACATAGATGAAAGCCTTTACTCCCGCCAGCTGTATGTACTCGGCCATGAGGCAATGAAGCATCTCCAG  
 GCTTCCAGTGTACTGATATCAGGCCTGCAGGGTCTGGGTGTGAAATTGCCAAGAATATCATCCTTGGTG  
 GGGTCAAGGCTGTCACTCTCCATGATCAGGGCATTGCCAGTGGGCTGATCTGTCTTCCAGTTCTGCCT  
 ACGTGAGGAAGATATTGGTAAAAACCGAGCTGAGATATCCAACCCAGCCTTGCTGAACCAACAGTTAC  
 GTTCTGTGTTTGCCTACACTGGACCTCTAATTGAGGAGTTCTTAGTGGTTTTTCAGGTAGTGGTTCTTA  
 CCAACACTCCTTTGGAATATCAGCTGCAGGTGGGTGAATTCTGCCATAGCCACGGAATCAAGCTGGTAGT  
 AGCAGACACTCGGGCCCTAGTTGGACAACCTTCTGTGACTTTGGAGAGGAAATGATTCTCACTGATTCA  
 AATGGAGAACAGCCACTCAGTGCCATGGTTTCAATGATCACTAAGGAGAATCCAGGGATTGCACCTGCC  
 TGGAGGACTCCCGCATGGATTTGAAAGTGGTGACTTTATCTTTACAGAAGTTCAGGGCATGAGTGA  
 ACTCAATGGCATTGGTCCATAGAGATCAAAGTTCTGGTCCCTATACCTTTAGTATCTGTGATACCTCC  
 AGCTTCTCTGAGTACATCCGTGGAGGCATTGTCAAGTAAAAGTACCTCGGAAGATCAATTTTAAAC  
 CCCTACTTGCCTCGCTGGCAGAGCCAGAGTTTGTGGTCACAGATTTTGTAAAGTGTGTCATCCTGCTCA  
 GCTCCACATTGGCTTCCAGGCCCTGCATCAGTTCTGACTCAGCACAGCAGGCCTCCTCGGCCCCATAAT  
 GAGGAGGATGCTGAGGAATTGGTGACCTTAGCCCAATCTGTGAATGCTCAAGCTTTGCCAGCAGTTCAGC  
 AGGATTGCCTGGACATCGACCTTATCCGGAAGTTGGCCTATGTAGCAGCTGGGACCTGGCACCCATGAA  
 TGCTTTTTTGGTGGTTTGGCTGCCAGGAGGTGATGAAGGCTTGTCTGGAAAGTTTATGCCATTAGG  
 CAGTGGCTGACTTTGATGCCCTGAATGTCTCCAGAGCACAGAGTGGCCTTCATGGAAGATAAGTGCC  
 TGCCACACCAGAACCCTTATGATGGGCAAGTGGCTGTATTTGGATCAGACCTACAAGAGAAGCTTGGCAA  
 GCAGAAATACTTCTGGTAGGTGCAAGTGGCATTGGCTGTGAGCTGCTCAAGAACTTTGCCATGATTGGC  
 CTCGGCTGTGGGAGGATGGAGAAATCACAGTTACAGACATGGACACCATTGAGAAGTCAAACCTGAACA



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GGCAGTTTCTCTCCGTCCTGGGACATCACAAAATTAAGTCTGAGACTGCTGCTGCAGCAGTGCCTGA
CATAAATCCACACATCAGGATATTCAGCCACCAGAATCGAGTAGGCCAGAGACAGAACACGTCTATGAT
GATGACTTCTTCCAAAAGCTGGATGGTGTGGCCATGCCCTAGACAATGTGGATGCTCGATTATACGTGG
ACCGCGTTGTGTTTACTATCGTAAGCCTCTGCTGGAATCAGGCACGCTGGGCACCAAGGGCAACGTGCA
GGTGGTTGTTCCCTTCTTGACAGAATCTTACAGCTCAAGCCAGGACCCACCTGAGAAATCCATCCCCATC
TGCACACTGAAGAACTTCCCTAATGCCATTGAGCACACCGTGCAGTGGGCTCGGGATGAGTTTGAAGGGC
TCTTCAAGCAGTCAGTAAAAATGTTAACCAATACCTCACGGACCCCAAGTTTCATGGAGCGGACACTGCA
GCTAGCCGGCACCCAGCCTTTGGAAGTACTGGAGGCCATACACTGCAGCCTGGTCTGCAGAGGCCACAG
ACTTGGGCCGACTGTGTGACTTGGGCTACCAGCACTGGCACACCCAGTATTCTCACAAATCCAGCAGT
TGCTGCACAACTCCCTCCAGCACAGCTTACGAGCTCTGGAGCACTTTTTTGGTCAGGACAAAACGCTG
TCCACATCCTCTCACCTTGACATAAACAATCCCCTGCATCTGGATTATGTGATGGCTGCTGCCAACCTG
TTTGCTCAGACATACGGACTAGGAGGGTCCCAGGACTGTGCTGTGGTGGCCAACTCCTGCAGTCTCTGC
CAGTCCCCAAGTTTGCTCCCAAGTCTGGCATCAGGATCCATGTTTCTGAGCAGGAGCTGCAGAGTACCAG
TGCCACCACCATTGATGACAGCCACCTGGAGGAACTCAAGACTGCACTTCTACTCCAGACAAGCTGCTT
GGATTC AAGATGTACCCATTGACTTTGAGAAGGATGACGACAGCAACTTCACATGGATTTCAATTGTGG
CAGCATCCAACCTCCGAGCAGAAAATATGGCATTTCGCCAGCAGACCGGCATAAGAGCAAACCTGATTGC
AGGCAAGATCATCCAGCCATTGCAACCACCACATCTGCTATAGTTGGCCTTGTGTGTCTGGAGCTGTAC
AAGGTGGTT CAGGGCCACCAACAACCTGGAGTCTTATAAAAACAGTTTTATCAACTTGGCTCTGCCTTTGT
TTAGCTTTTCTGCACCTCTGGCTCCAGAGTGTCATCAGTACTATGATCAAGAGTGGACACTGTGGGATCG
CTTTGATGTGCAAGGACTGCAACCTAGCGGTGAGGAGATGACCTTGAAGCAGTTTCTAGACTACTTTAAG
ACAGAGCACAAGCTGGAAGTCATCATGCTGTCCAGGGTGTGCCATGCTCTATTCTGTCTTTATGCCAG
CCAGCAAGCTCAAAGAACGGTTGGATCAGCCGATGACAGAGATTGTGAGCTGTGTGCAAAGCAAAAAT
GGGCCATCATGTGAAGTCACTTGTGTTGAGCTGTGCTGCAACAGTGCAGTGGAGACGACATAGAGGTT
CCTTATGTACGATACATCATCCGCTGA
    
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**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_011667
- 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\\_011667.2](#), [NP\\_035797.1](#)
- RefSeq Size:** 3981 bp

RefSeq ORF: 3177 bp

Locus ID: 22202

UniProt ID: [P31254](#)

Cytogenetics: Ypter

**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 (By similarity). The Y chromosome form could be involved in the survival and proliferation of differentiating spermatogonia.[UniProtKB/Swiss-Prot Function]