

## Product datasheet for **MC215974**

### Uba3 (NM\_001111106) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Uba3 (NM_001111106) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Uba3
Synonyms:	A830034N06Rik; AI256736; AI848246; AW546539; Ube1c
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**Fully Sequenced ORF:** >MC215974 representing NM\_001111106  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGGATGGCGAGGAGCCAATGGCTGTTGATGGTGGGTGTGGGACACTGGAGACTGGGAAGGTCGCT  
GGAACCATGTAAAGAAGTTCCTCGAGCGGTCTGGACCCTCACACACCCGATTTTGAACCAAGCACTGA  
ATCACTCCAGTTCCTGTTAGATACATGTAAGTTCAGTCATTGGAGCTGGTGGCTTAGGATGTGAGCTT  
CTGAAAAATCTGGCATTATCTGGTTTTAGACAGATTTCATGTTATAGACATGGACACTATAGATGTTTCCA  
ATTTAAATAGACAGTTTTTATTTAGGCCTAAAGATGTCGGAAGACCCAAGGCTGAAGTTGCTGCAGAATT  
CCTAAATGACAGAGTTCCTAACTGCAACGTGGTACCACATTTCAACAAGATACAAGATTTTAAACGACT  
TTCTACCGACAATTTATATCATTGTATGTGGCCTGGACTCTATCATAGCGAGAAGATGGATCAATGGAA  
TGCTGATATCTTCTAAATTATGAAGATGGTGTGTTGGATCCAAGCTCCATTGTACCTTTGATAGATGG  
GGGGACAGAAGGCTTTAAAGGGAATGCCGAGTGATTTTGCCTGGAATGACCGCTTGTATTGAGTGCCT  
CTGGAACCTTACCACCACAGGTCATTTCCCATGTGTACCATTGCATCTATGCCAGGCTCCCAGAAC  
ACTGTATCGAGTATGTGAGGATGTTGCAATGGCCTAAAGAGCAGCCTTTTGGAGATGGGGTTCATTAGA  
TGGAGATGACCCTGAACATATTCAGTGGATTTTCCAAAAGTCCATAGAGAGAGCATCACAATATAATATT  
AGAGGCGTTACCTACAGACTCACTCAAGGGGTGGTAAAACGAATCATTCTGCAGTAGCTTCTACAAATG  
CAGTCATTGCAGCTGTGTGCCACTGAGGTTTTCAAGATAGCTACAAGTGCATACATCCCTTAAATA  
CTACCTGGTATTCAATGATGTAGATGGGCTGTACACTTACAGTTTGAAGCAGAGAGAAAAGGAAAAGTGT  
CCAGCATGTAGCCAACCTCCTCAAACATTCAGTTTTCCCATCAGCTAACTACAGGAGGCTTTAGACT  
ACCTAACCAACAGTGCTTCTCTGCAAATGAAGTCTCCGGCTATCACAGCCACATTAGAGGGGAAGAACAG  
GACACTTTACTTACAGTCAGTAACGTCTATTGAAGAACGAACCGCCCAATCTTTCCAAAACATTAATA  
GAACTGGGACTAGTTGATGGACAAGAAGTGGCTGTTGCTGATGCTACTACACCACAGACTGTACTATTCA  
AACTTCATTTACT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001111106

**Insert Size:** 1347 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\\_001111106.2](#), [NP\\_001104576.1](#)

RefSeq Size: 2590 bp

RefSeq ORF: 1347 bp

Locus ID: 22200

UniProt ID: [Q8C878](#)

Cytogenetics: 6 D3

**Gene Summary:** The protein encoded by this gene is the catalytic subunit of the enzyme that activates NEDD8, a ubiquitin-like molecule that binds to its target proteins through an enzymatic reaction analagous to ubiquitylation. Embryonic mice deficient for this protein die prior to implantation and display apoptosis of the inner cell mass. Trophoblastic cells cannot enter S phase, demonstrating that this gene is required for cell cycle progression during embryogenesis. Two pseudogenes have been found for this gene. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2014]  
Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region compared to variant 1. It encodes isoform 2 which is shorter compared to isoform 1.