

## Product datasheet for MC227473

### Uba3 (NM\_001301859) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Uba3 (NM\_001301859) 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  
**Fully Sequenced ORF:** >MC227473 representing NM\_001301859  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGATGGCGAGGAGCCGGAGAAGAAAGAAGGAGAATAGAGGAGCTGCTGGCTGAGAAAATGGCTG  
 TTGATGGTGGGTGTGGGACACTGGAGACTGGGAAGTTCGCTGGAACCATGTAAGAAGTTCCTCGAGCG  
 GTCTGGACCTTCACACACCCCGATTTGCAACCAAGCACTGAATCACTCCAGTTCCTGTTAGATACATGT  
 AAAGTTCTAGTCAATTGGAGCTGGTGGCTTAGGATGTGAGCTTCTGAAAAATCTGGCATTATCTGGTTTTA  
 GACAGATTCATGTTATAGACATGGACACTATAGATGTTTCCAATTTAAATAGACAGTTTTTATTTAGGCC  
 TAAAGATGTCGGAAGACCCAAGGCTGAAGTTGCTGCAGAATTCCTAAATGACAGAGTTTCTAACTGCAAC  
 GTGGTACCACATTTCAACAAGATACAAGATTTAACGACACTTTCTACCGACAATTTTATATCATTGTAT  
 GTGGCCTGGACTCTATCATAGCGAGAAGATGGATCAATGGAATGCTGATATCTCTTAAATTAAGA  
 TGGTGTGTTGGATCCAAGCTCCATTGTACCTTTGATAGATGGGGGACAGAAGGCTTTAAAGGGAATGCC  
 CGAGTGATTTTGCCTGGAATGACCGCTTGTATTGAGTGCACCTGGAACCTTACCACACAGGTCAATT  
 TCCCCATGTGTACCATTGCATCTATGCCAGGCTCCAGAACACTGTATCGAGTATGTGAGGATGTTGCA  
 ATGGCCTAAAGAGCAGCCTTTTGGAGATGGGGTTCCATTAGATGGAGATGACCCTGAACATATTCAGTGG  
 ATTTTCCAAAAGTCCATAGAGAGAGCATACAATAAATATTAGAGGCGTTACCTACAGACTCACTCAAG  
 GGGTGGTAAAACGAATCATTCTGCAGTAGCTTACAAAATGCAGTCATTGCAGCTGTGTGTGCCACTGA  
 GGTTTTCAAGATAGCTACAAGTGCCTACATTTCCCTTAATAACTACCTGGTATTCAATGATGTAGATGGG  
 CTGTACACTTACACGTTTGAAGCAGAGAGAAAAGGAAAAGTGTCCAGCATGTAGCCAACCTTCTCAAAACA  
 TTCAGTTTTCCCATCAGCTAACTACAGGAGGTCTTAGACTACCTAACCAACAGTGCTTCTCTGTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI



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<b>ACCN:</b>	NM_001301859
<b>Insert Size:</b>	1188 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001301859.1</a></u> , <u><a href="#">NP_001288788.1</a></u>
<b>RefSeq Size:</b>	1361 bp
<b>RefSeq ORF:</b>	1188 bp
<b>Locus ID:</b>	22200
<b>UniProt ID:</b>	<u><a href="#">Q8C878</a></u>
<b>Cytogenetics:</b>	6 D3
<b>Gene Summary:</b>	<p>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 analogous 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]</p> <p>Transcript Variant: This variant (5) lacks several exons and its 3' terminal exon extends past a splice site that is used in variant 1. This results in a novel 3' coding region and 3' UTR, compared to variant 1. It encodes isoform 5 which is shorter and has a distinct C-terminus, compared to isoform 1.</p>