

## Product datasheet for MR229898

### Uba3 (NM\_001301858) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Uba3 (NM\_001301858) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Uba3  
**Synonyms:** A830034N06Rik; AI256736; AI848246; AW546539; Ube1c  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR229898 representing NM\_001301858  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGATGGCGAGGAGCCGGAGAAGAAAAGAAGGAGAATAGAGGAGCTGCTGGCTGAGAAAATGGCTG  
 TTGATGGTGGGTGTGGGACACTGGAGACTGGGAAGTCGCTGGAACCATGTAAGAAGTTCCTCGAGCG  
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 TCTATCATAGCGAGAAGATGGATCAATGGAATGCTGATATCTCTTCTAAATTATGAAGATGGTGTGTTGG  
 ATCCAAGCTCCATTGTACCTTTGATAGATGGGGGACAGAAGGCTTTAAAGGGAATGCCCGAGTGATTTT  
 GCCTGGAATGACCGCTTGTATTGAGTGCCTCTGGAACTTTACCCACCACAGGTCAATTTCCCATGTGT  
 ACCATTGCATCTATGCCAGGCTCCCAGAACACTGTATCGAGTATGTGAGGATGTTGCAATGGCCTAAAG  
 AGCAGCCTTTTGGAGATGGGGTCCATTAGATGGAGATGACCCGTAACATATTCAGTGGATTTTCCAAA  
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 CACGTTTTGAAGCAGAGAGAAAAGGAAAAGTCCAGCATGTAGCCAATTCCTCAAAAATTTCAGTTTTCC  
 CCATCAGCTAAACTACAGGAGGTCTTAGACTACCTAACCAACAGTGCTTCTCTGCAAAATGAAGTCTCCGG  
 CTATCACAGCCACATTAGAGGGGAAGAACAGGACACTTTACTTACAGTCAGTAACGTCTATTGAAGAACG  
 AACCAGGCCCAATCTTTCCAAAACATTAAGAAGTGGGACTAGTTGATGGACAAGAAGTGGCTGTTGCT  
 GATGTCCTACACCACAGACTGTACTATTCAAACCTTCATTTTACT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
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**Protein Sequence:** >MR229898 representing NM\_001301858  
 Red=Cloning site Green=Tags(s)

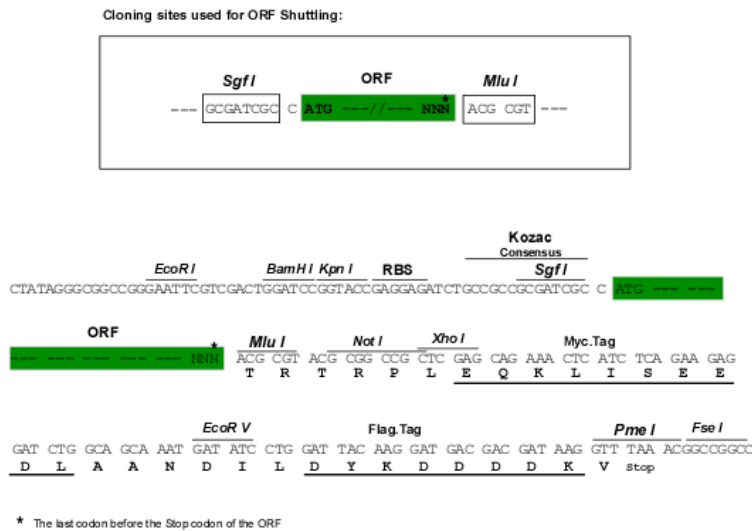
MADGEEPEKRRRIEELLAEKMAVDGGCGDTGDWEGRWNVHKKFLERSGPFTHPDFEPSTEALSGFRQIH  
 VIDMDTIDVSNLNRQFLFRPKDVGRPKAEVAAEFLNDRVPCNVVPHFNKIQDFNDTFYRQFHIIVCGLD  
 SIIARRWINGMLISLLNYEDGVLDPPSSIVPLIDGGTEGFKGNARVILPGMTACIECTLELYPPQVNFPMC  
 TIASMPRLPEHCIEYVRMLQWPKEQPFQDGVPLDGGDPEHIQWIFQKSIERASQYNIRGVTYRLLTQGVVK  
 RIIPAVASTNAVIAAVCATEVFKIATSAYIPLNNYLVFNDVDGLYTYTFAERKENCPCASQLPQNIQFS  
 PSAKLQEVLDYLTNSASLQMKSPAITATLEGKNRTLQSVTSIEERTRPNLSKTLKELGLVDGQELAVA  
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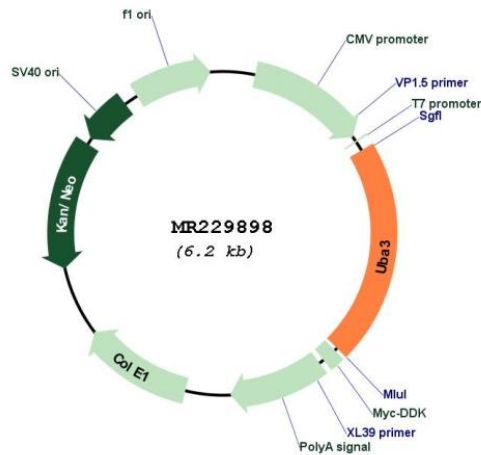
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001301858

<b>ORF Size:</b>	1305 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001301858.1</a> , <a href="#">NP_001288787.1</a>
<b>RefSeq Size:</b>	2551 bp
<b>RefSeq ORF:</b>	1308 bp
<b>Locus ID:</b>	22200
<b>UniProt ID:</b>	<a href="#">Q8C878</a>
<b>Cytogenetics:</b>	6 D3
<b>MW:</b>	49.4 kDa
<b>Gene Summary:</b>	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]