

## Product datasheet for **MG218638**

### Uba3 (NM\_001111106) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Uba3 (NM_001111106) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Uba3
Synonyms:	A830034N06Rik; AI256736; AI848246; AW546539; Ube1c
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG218638 representing NM\_001111106  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGATGGCGAGGAGCCAATGGCTGTTGATGGTGGGTGTGGGACACTGGAGACTGGGAAGGTCGCT  
 GGAACCATGTAAAGAAGTTCCTCGAGCGGTCTGGACCCTTCACACACCCGATTTCGAACCAAGCACTGA  
 ATCACTCCAGTTCCTGTTAGATACATGTAAGTTCAGTCATTGGAGCTGGTGGCTTAGGATGTGAGCTT  
 CTGAAAACTGGCATTATCTGGTTTTAGACAGATTATGTTATAGACATGGACACTATAGATGTTTCCA  
 ATTTAAATAGACAGTTTTTATTTAGGCCTAAAGATGTCGGAAGACCCAAGGCTGAAGTTGCTGCAGAATT  
 CCTAAATGACAGAGTTCCTAACTGCAACGTGGTACCACATTTCAACAAGATACAAGATTTTAACGACACT  
 TTCTACCGACAATTTATATCATTGTATGTGGCCTGGACTCTATCATAGCGAGAAGATGGATCAATGGAA  
 TGCTGATATCTTCTAAATTATGAAGATGGTGTGTTGGATCCAAGCTCCATTGTACCTTTGATAGATGG  
 GGGGACAGAAGGCTTTAAAGGGAATGCCGAGTGATTTTGCCTGGAATGACCGCTTGTATTGAGTGCCT  
 CTGGAACCTTACCACCACAGGCAATTTCCCATGTGTACCATTGCATCTATGCCCAGGCTCCCAGAAC  
 ACTGTATCGAGTATGTGAGGATGTTGCAATGGCCTAAAGAGCAGCCTTTTGGAGATGGGGTTCATTAGA  
 TGGAGATGACCCTGAACATATTCAGTGGATTTTCCAAAAGTCCATAGAGAGAGCATCACAAATAATATT  
 AGAGGCGTTACCTACAGACTCACTCAAGGGTGGTAAAACGAATCATTCTGCAGTAGCTTCTACAAATG  
 CAGTCATTGCAGCTGTGTGCCACTGAGGTTTTCAAGATAGCTACAAGTGCATACATCCCTTAATAA  
 CTACCTGGTATTCAATGATGTAGATGGGCTGTACACTTACAGTTTGAAGCAGAGAGAAAGGAAAAGTGT  
 CCAGCATGTAGCCAACCTCCTCAAACATTCAGTTTTCCCATCAGCTAACTACAGGAGGCTTAGACT  
 ACCTAACCAACAGTGCTTCTCTGCAAATGAAGTCTCCGGCTATCACAGCCACATTAGAGGGGAAGAACAG  
 GACACTTTACTTACAGTCAGTAACGTCTATTGAAGAACGAACCAGGCCAATCTTTCCAAAACATTAATA  
 GAACTGGGACTAGTTGATGGACAAGAACTGGCTGTTGCTGATGCTACTACACCACAGACTGTACTATTCA  
 AACTTCATTTTACT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG218638 representing NM\_001111106  
 Red=Cloning site Green=Tags(s)

MADGEEPMAVDGGCGDGDWEGRWNHVKKFLERSGPFTHPDFEPSTESLQFLLDTCKVLVIGAGGLGCEL  
 LKNLALSGFRQIHVIDMDTIDVSNLNRQFLFRPKDVGRPKAEVAAEFLNDRVPCNVVPHFNKIQDFNDT  
 FYRQFHIIIVCGLDSIIARRWINGMLISLLNYEDGVLDPSSIVPLIDGGTEGFKGNARVILPGMTACIECT  
 LELYPPQVNFPMCTIASMPRLPEHCIEYVRMLQWPKEQPFQDGVPLDGDDEPHIQWIFQKSIERASQYNI  
 RGVTYRLTQGVVKRIIPAVASTNAVIAAVCATEVFKIATSAYIPLNNYLVFNDVDGLYTYTFEAERKENC  
 PACSQLPQNIQFSPSAKLQEVLDYLTNSASLQMKSPAITATLEGKNRTLQSVTSIEERTRPNLSKTLK  
 ELGLVDGQELAVADVTPQTFLKLFHT

**TRTRPLE** - GFP Tag - V

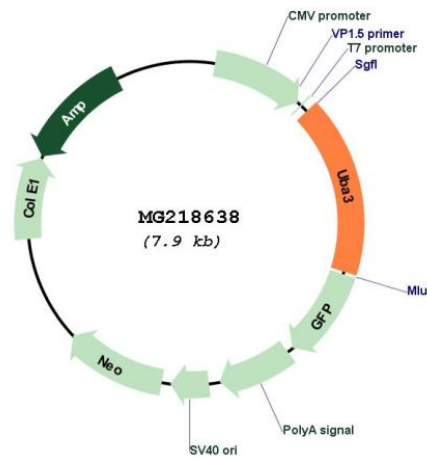
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001111106

ORF Size: 1344 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: 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>	<u>NM_001111106.2, NP_001104576.1</u>
<b>RefSeq Size:</b>	2401 bp
<b>RefSeq ORF:</b>	1347 bp
<b>Locus ID:</b>	22200
<b>UniProt ID:</b>	<u>Q8C878</u>
<b>Cytogenetics:</b>	6 D3
<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 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]