

## Product datasheet for **MG211543**

### Uba6 (NM\_172712) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Uba6 (NM_172712) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Uba6
Synonyms:	4930542H01; 5730469D23Rik; AU021846; AW124799; E1-L2; Ube112
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211543 representing NM_172712 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

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AAAAATGCCAAGCATGGGATCTAGGGACCAATTTCTTCTGTGTGAAGATGATGTTGTTAATGAGAGAAA  
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CCTCTTGATGAAACCACAGACCTCTCTTCTTAGAAAAATATCAGTGTGTAGTATTGACTGAAATAAAAC  
TGACATTACAAAAGAAGATCAACAATTTTTGCCATTCTCATTGCCCTCCAATTAAGTTCATTAGTGCAGA  
TGTACATGGAAATTTGGTCCAGGTTGTTTTGTGATTTTGGTGTGAATTTGAAGTTTCAGATACAACAGGA  
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GTCATCTCACAAGCTTGAGACAGGACAGTTCCTAACATTTTCGAGAAATTCATGGAATGACAGGCTTAAA  
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GGAATGGTAACAGTTACAGATCCTGACTTGATAGAAAAATCCAATTTAAACAGACAGTTCCTGTTTCGTC
CTCATCACATACAGAAACCTAAAAGCTATACTGCTGCTGAAGCAACTCTGAAAATAAATCCTCAATTA
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ACTAATGAG
```

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG211543 representing NM\_172712  
 Red=Cloning site Green=Tags(s)

```
MERSEPLAVLSCEEASCSWAGCASKNLPMTTESLEIDDGLYSRQRYVLGDTAMQKMAKSCVFLSGMG
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PLDETTDL SFLEKYQCVVLTEIKLTLQKKINNFCHSHCPPIKFISADVHGIWSRLFCDFGDEFVSDTTG
EEPKEIFISNITQANPGIVTCLSHPHKLETGQFLTFREIHGMTGLNGSVQQITVISPF SFSIGDTTKLD
PYLHGGIAVQVTPKTFCFEPLSQIKHPRCL IADFSKPEAPLEIHLAMLALDQFQENYRKNPNI RCQQD
SDELLKLT V SINETLEEKPEVNADIVHWL SWTAQGF L PPLAAVGGVASQEV LKAVTGKFSPLCQWLYLE
AADTVESLGNPGHEEFLPRGDRYDAIRACIGNTLCQKLQNLNIFLVGCGAIGCEMLKNFALLGVGTGREK
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QDIIITALDNVEARRYVDSRCLANLRPLLDSGTMGTGHTTEIIVPQLTESYNSHRDPPEEIPFCTLKSF
PAAIEHTIQWARDKFESSFSHKPSL FNKFWQAYPSAEDVLQKIQNGQSLEGCFQVIKLLSRRPRIWSQCV
ELARLKF EKYFNH KALQLLHCFPLETRLKDGSLFWQSPKRPPSPIKFDLNEPLHLSFLQSAAKLYATVYC
IPFSEKDL SVNSLMDILSEVKIEEFKPSNKNVVDDETARKPDHVPVSEDERNAVFQLEALSSNKATKS
DLQMTVLSFEKDDDRNGHIDFITAASNLRAKMYSIEPADRFKTKRIAGKIIPAIATSTA AVSGLVALEMI
KVAGGYPFDAYKNCFLNLAIP IIVFTETSEVRKTEIRNGISFTIWRWTVHGKEDFTLSDFINAVKENYG
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TNE
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TRTRPLE – GFP Tag – V

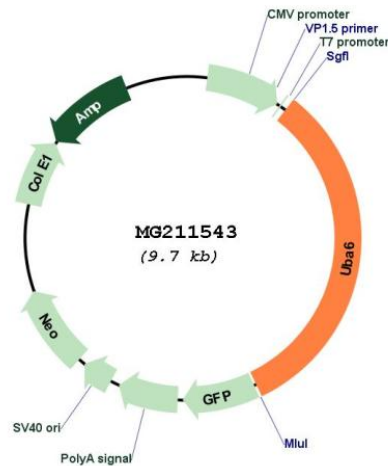
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM\_172712

ORF Size: 3159 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_172712.2, NP_766300.1</u>
<b>RefSeq Size:</b>	5101 bp
<b>RefSeq ORF:</b>	3162 bp
<b>Locus ID:</b>	231380
<b>UniProt ID:</b>	<u>Q8C7R4</u>
<b>Cytogenetics:</b>	5 E1
<b>Gene Summary:</b>	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. Specific for ubiquitin, does not activate ubiquitin-like peptides. Differs from UBE1 in its specificity for substrate E2 charging. Does not charge cell cycle E2s, such as CDC34 (By similarity). Essential for embryonic development. Required for UBD/FAT10 conjugation.[UniProtKB/Swiss-Prot Function]