

## Product datasheet for **MG219278**

### Uba1 (NM\_009457) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Uba1 (NM_009457) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Uba1
Synonyms:	A1; A1S9; Sb; Sbx; Ube-1; Ube1x
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG219278 representing NM_009457 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

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CCCCTGCACAGTCTGCGCTGTCCGAAGTGTCTCAGTGCCAACCAACGGAATGGCGAAGAACGGCAGTGA  
AGCAGACATAGACGAGAGCCTTTACTCCGGCAGCTGTACGTTTTGGCCATGAGGCAATGAAAATGCTC  
CAGACATCCAGCGTCCTTGTCTCAGGCTTGGGGGCTTGGGTGTAGAAAATGCTAAGAACATCATCCTTG  
GTGGGTCAAGGCTGTCACCCTACATGACCAAGGAACACCCAGTGGGCTGATCTCTCTCCAGTTTTA  
CCTTCGGGAGGAGGACATTGGTAAAAATCGAGCGGAGGTATCCCAGCCCCGACTTGTGAACTCAACAGC  
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CCAACCTCAATGGATGTCAGCCCATGGAGATCAAAGTGTGGTTCCTTATACCTTTAGTATCTGTGACACT  
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GGGCTGGGTTGTGGAGAGGGTGGAGAGGTCGTGGTCACAGACATGGACACCATTGAGAAATCAAATCTGA
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CTGCTAAGCTCAAGGAACGATTGGATCAGCCGATGACAGAGATTGTGAGCCGAGTGTCAAAGAGAAAAGCT
GGGCCCGCATGTGCGGGCACTGGTCTGAGCTGTGCTGCAACGATGAAAGCGGCCGAGGACGTCGAGGTC
CCTTATGTCCGATATACCATTTCG
```

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG219278 representing NM\_009457

Red=Cloning site Green=Tags(s)

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MSSSPLSKRRVSGPDPKPGSNCSAQSALSEVSSVPTNGMAKNGSEADIDESLYSRQLYVLGHEAMKML
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YVPVTAYTGPLVEDFLSSFQVVVLTNSPLEAQLRVGEFCHSRGIKLVVADTRGLFGQLFCDFGEEMVLT
SNGEQPLSAMVSMVTKDNPVVTCLDEARHGFETGDFVSFSEVQGMQLNGCQPMKIKVLGPYTFSDICTD
SNFSDYIRGGIVSQVKVPKKISFKSLPASLVEPDFVMTDFAKYSRPAQLHIGFQALHQFCALHNQPPRPR
NEEDATELVGLAQAVNARSPPSVKQNSLDEDLIRKLAYVAAGDLAPINAFIGGLAAQEVKACSGKFMPI
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ICTLKNFPNAIEHTLQWARDEFGLFKQPAENVNQYL TDSKFVERTLRLAGTQPLEVLEAVQRSLVLQRP
QTWGDCVTWACHHWHYQYCNIRQLLHNFPPDQLTSSGAPFWSGPKRCPHPLTFD VNNTLHLDYVMAAAN
LFAQTYGLTGSQDRAAVASLLQSVQVPEFTPKSGVKIHVSDQELQSANASVDDSRLEELKATLPSDKLP
GFKMYPIDFEKDDSNFHMDFIVAASNLRAENYDISPADRHKS KL IAGKIIPAIATTTAAVVGLVCLELY
KVVQGHQQLDSYKNGFLNLALPFFGFSEPLAAPRHQYYNQEWTLWDRFEVQGLQPNGEEMTLKQFLDYFK
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PYVRYTIR
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TRTRPLE – GFP Tag – V

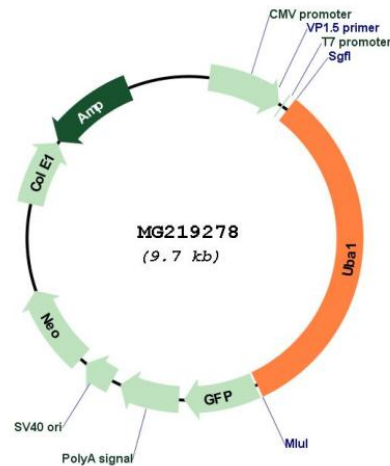
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_009457

ORF Size: 3174 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><a href="#">NM_009457.3</a></u> , <u><a href="#">NP_033483.1</a></u>
<b>RefSeq Size:</b>	3949 bp
<b>RefSeq ORF:</b>	3357 bp
<b>Locus ID:</b>	22201
<b>UniProt ID:</b>	<u><a href="#">Q02053</a></u>
<b>Cytogenetics:</b>	X 16.15 cM
<b>Gene Summary:</b>	This gene encodes a member of the ubiquitin-activating E1 family. The encoded protein initiates the ubiquitin activation and transfer cascade, catalyzing the first step in ubiquitin conjugation to mark cellular proteins for proteasome degradation. Ubiquitin activating enzymes use ATP to form a thioester between a conserved catalytic cysteine of the enzyme and the C-terminal carboxylate of ubiquitin. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013]