

## Product datasheet for **MG201102**

### Ube2a (NM\_019668) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ube2a (NM\_019668) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Ube2a  
**Synonyms:** HHR6A; HR6A; Mhr6a  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG201102 representing NM\_019668  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGACCCCGCCCGCGCCCTCATGAGGGACTTCAAGAGGTTACAGGAAGATCCTCCGGCCGGAG  
TGAGCGGGGCTCCGTCGGAGAACAACATAATGTTTGAATGCGGTCATTTTGGGCCGAAGGGACCCC  
GTTTGAGGATGGAACATTTAAGCTTACAATTGAATTCACTGAAGAGTATCCTAATAAGCCACCTACTGTT  
AGATTTGTCTCTAAGATGTTCCATCCTAACGTCTATGCAGATGGTAGTATATGTCTGGATATACTTCAGA  
ACCGTTGGAGTCCAACCTATGATGTGTCTCCATTTAACGTCCATACAGTCTCTATTGGATGAACCTAA  
TCCAATAGTCCAGCAAACAGCCAGGCTGCCAGCTGTACCAGGAGAACAAGCGGAATATGAAAAGCGT  
GTTTCTGCAATAGTAGAACAAGCTGGCGCGACTGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG201102 representing NM\_019668  
Red=Cloning site Green=Tags(s)

MSTPARRRLMRDFKRLQEDPPAGVSGAPSENNIMVWNAVIFGPEGTPFEDGTFKLTIEFTEEYPNKPPTV  
RFVSKMFHPNYYADGSICLDILQNRWSPYDVSSILTSIQSLLEPNPNPANSQAAQLYQENKREYEKR  
VSAIVEQSWRDC

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI





<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_019668.4</u>
<b>RefSeq Size:</b>	1661 bp
<b>RefSeq ORF:</b>	459 bp
<b>Locus ID:</b>	22209
<b>UniProt ID:</b>	<u>Q9Z255</u>
<b>Cytogenetics:</b>	X A3.3
<b>Gene Summary:</b>	Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. In association with the E3 enzyme BRE1 (RNF20 and/or RNF40), it plays a role in transcription regulation by catalyzing the monoubiquitination of histone H2B at 'Lys-120' to form H2BK120ub1. H2BK120ub1 gives a specific tag for epigenetic transcriptional activation, elongation by RNA polymerase II, telomeric silencing, and is also a prerequisite for H3K4me and H3K79me formation. In vitro catalyzes 'Lys-11', as well as 'Lys-48'-linked polyubiquitination. Required for postreplication repair of UV-damaged DNA. [UniProtKB/Swiss-Prot Function]