

## Product datasheet for MR201102

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ube2a (NM\_019668) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ube2a  
**Synonyms:** HHR6A; HR6A; Mhr6a  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201102 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCGACCCCGCCCGCGCCCTCATGAGGGACTTCAAGAGTTACAGGAAGATCCTCCGGCCGGAG  
 TGAGCGGGGCTCCGTCGGAGAACAACATAATGGTTTGAATGCGGTCATTTTTGGCCCCAAGGGACCCC  
 GTTTGAGGATGGAACATTTAAGCTTACAATTGAATTCCTGAAGAGTATCCTAATAAGCCACCTACTGTT  
 AGATTTGTCTCTAAGATGTTCCATCCTAACGTCTATGCAGATGGTAGTATATGTCTGGATATACTCAGA  
 ACCGTTGGAGTCCAACCTATGATGTGTCTCCATTTAACGTCCATACAGTCTCTATTGGATGAACCTAA  
 TCCAATAGTCCAGCAAACAGCCAGGCTGCCAGCTGTACCAGGAGAACAAGCGGAATATGAAAAGCGT  
 GTTCTGCAATAGTAGAACAAGCTGGCGCGACTGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201102 protein sequence  
 Red=Cloning site Green=Tags(s)

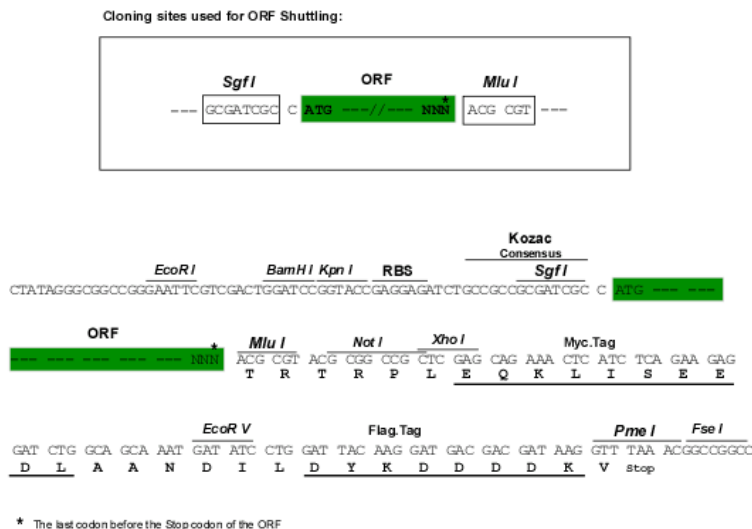
MSTPARRRLMRDFKRLQEDPPAGVSGAPSENNIMVWNAVIFGPEGTPFEDGTFKLTIEFTEEYPNKPPTV  
 RFVSKMFHPNVYADGSICLDILQNRWSPYDVSSILTSIQSLLEPNPNPANSQAAQLYQENKREYEKR  
 VSAIVEQSWRDC

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_019668

**ORF Size:** 459 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.

**Components:** 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).

- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
  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.

**RefSeq:** [NM\\_019668.4](#)

**RefSeq Size:** 1661 bp

**RefSeq ORF:** 459 bp

**Locus ID:** 22209

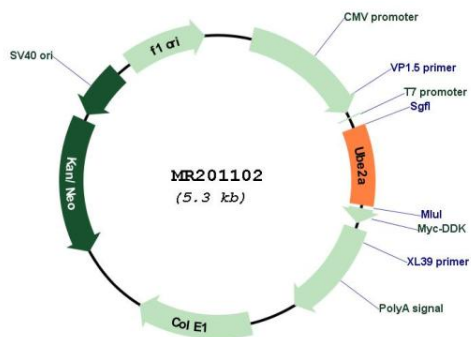
**UniProt ID:** [Q9Z255](#)

**Cytogenetics:** X A3.3

**MW:** 17.3 kDa

**Gene Summary:** 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]

**Product images:**



Circular map for MR201102