

Product datasheet for **MC222317**

Ube3a (NM_011668) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ube3a (NM_011668) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ube3a
Synonyms:	4732496B02; 5830462N02Rik; A130086L21Rik; Hpve6a; mKIAA4216
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222317 representing NM_011668
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCACAGCTTGTAAAAGATCACCAGGAGAATCCCAGTCTGAGGACATTGAAGCTAGCCGAATGAAGC
 GAGCAGCTGCAAAGCATCTAATAGAACGCTACTACCATCAGTTAACTGAGGGCTGTGAAAATGAGGCCTG
 CACGAATGAGTTTTGTGCTTCTGTCCAACCTTTCTTCGTATGGATAACAATGCAGCAGCTATTAAGCC
 CTTGAGCTTTATAAAATTAATGCAAACTCTGTGATCCTCATCCCTCCAAGAAAGGAGCAAGCTCAGCTT
 ACCTTGAGAACTCAAAGGTGCATCTAACAACTCAGAGATAAAAAATGAACAAGAAGGAAGAAAAGATTT
 TAAAGATGTGATTTACCTAACTGAAGAGAAAGTATATGAAATTTATGAATTTTGTAGAGAGAGTGAGGAT
 TATCCCTTTAATTCGTGAATTTGGAAGAATTTTTCTAGTGCTGAGGCACTGGTTCTGAGCTTTCGGA
 AAGTCAAACAGCACACAAAGGAGGAATGAAATCTCTTCAAGAAAAGGATGAAGACAAGGATGAAGATGA
 AAAGAAAAGCTGCATGTTCTGCTGCTGCTATGGAAGAAGACTCAGAAGCATCTTCTTCAAGGATGGGT
 GATAGTTCACAGGGAGACAACAATGTACAAAAATAGGTCCTGATGATGTGACTGTGGATATTGATGCTA
 TTAGAAGGTCTACAGCAGTTTGTCTGCTAATGAAAAATTAGAAACTGCCTTCTGAATGCACCTGTATA
 TCTGTCACCTAACGTGGAATGTGATTTGACATATCATAATGTGTATACTCGAGATCCTAATTATCTCAAT
 TTGTTCAATTATTGTAATGGAGAATAGTAATCTCCACAGTCCTGAATATCTGGAAATGGCGTTGCCATTAT
 TTTGCAAAGCTATGTGTAAGCTACCCCTTGAAGCTCAAGGAAAAGTATTAGGCTGTGGTCTAAATACAG
 TGCTGACCAGATTCGGAGAATGATGGAACATTTACGCAACTTATTACCTACAAAGTCATAAGCAATGAA
 TTTAATAGCCGAAATCTAGTGAATGATGATGATGCCATTGTTGCTGCTTCAAAGTGTGAAAATGGTTT
 ACTATGCAAAATGATGTTGGGAGGGGATGTGGACACAAATCATAATGAGGAAGATGATGAAGAACCCATACC
 TGAGTCCAGCGAATTAACACTTCAGGAGCTTCTGGGAGATGAAAAGAAGAAATAAGAAAGGTCCTCGAGTG
 GATCCACTAGAAAACCGAAGTGGCGTTAAAACCTAGACTGTGCGAAAACCACTTATCTCCTTTGAAGAAT
 TCATTAATGAACCACTGAATGATGTTCTAGAAATGGACAAAGATTATACCTTTTTCAAAGTTGAAACAGA
 GAACAAATTTCTTTTATGACATGTCCCTTTATATTGAATGCTGTACAAAAGAATCTGGGATTATATTAT
 GACAATAGAATTCGCATGTACAGTGAAAGAAGAATCACTGTTCTTTACAGCCTAGTTCAAGGACAGCAGT
 TGAATCCGATTTTGAAGTCAAAGTCAGACGTGACCATATTATAGATGATGCACTGGTCCGGCTAGAGAT
 GATTGCTATGAAAATCCTGCAGACTTGAAGAAGCAGTTGTATGTGGAATTTGAAGGAGAACAAGGAGTA
 GATGAGGGAGGCGTTTCCAAAGAGTTTTTTCAGTTGGTTGTGGAGGAAATTTTTAATCCAGATATTGGTA
 TGTTACACATATGATGAAGCTACGAAATTTTTGGTTTAAATCCATCTTCTTTGAAAAGTCCGAGTCAAGT
 TACTCTGATTGGCATAGTCCGGTCTGGCTATTTACAATAATTGTATACTGGATGTCCATTTTCCCATG
 GTTGATACAGGAAGCTAATGGGGAAAAAGGAACCTTTCGTGACTTGGGAGACTCTCACCCAGTTTTAT
 ATCAGAGTTTAAAGGATTTATTGGAATATGAAGGGAGTGTGGAAGATGATATGATGATCACTTTCCAGAT
 ATCACAGACAGATCTTTTTGGTAACCCAATGATGTATGATCTAAAAGAAAATGGTGATAAAATCCAATT
 ACAATGAAAACAGGAAGGAATTTGTCAATCTCTATTACAGACTACATTCTCAATAAATCTGTAGAAAAAC
 AATTCAAGGCATTTCCGAGAGTTTTTATATGGTGACTAATGAATCGCCCTTAAAATACTTATTACAGACC
 AGAAGAAATTTGAATGCTTATATGTGGAAGCCGGAATCTAGATTTCCAGGCACTAGAAGAACTACAGAG
 TATGACGGTGGCTATACGAGGGAATCTGTTGTGATTAGGGAGTTCTGGGAAATTTGTTTCGTTTACAG
 ATGAACAGAAAAGACTCTTTCTGCAGTTTACAACAGGCACAGACAGACAGACCTGTTGGAGGACTAGGAAA
 ATTGAAGATGATTATAGCCAAAAATGGCCAGACACAGAAAGGTTACCTACATCTCATACTTGCTTTAAT
 GTCCTTTTACTTCCGGAATTTCAAGCAAGAAAAACTTAAAGAGAGATTGTTGAAGGCCATCACATATG
 CCAAAGGATTTGGCATGCTG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_011668
Insert Size: 2613 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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_011668.2 , NP_035798.2
RefSeq Size:	5097 bp
RefSeq ORF:	2613 bp
Locus ID:	22215
UniProt ID:	O08759
Cytogenetics:	7 33.95 cM
Gene Summary:	<p>E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and transfers it to its substrates. Several substrates have been identified including the ARNTL/BMAL1, ARC, RAD23A and RAD23B, MCM7 (which is involved in DNA replication), annexin A1, the PML tumor suppressor, and the cell cycle regulator CDKN1B (PubMed:20211139, PubMed:24728990). Additionally, may function as a cellular quality control ubiquitin ligase by helping the degradation of the cytoplasmic misfolded proteins. Finally, UBE3A also promotes its own degradation in vivo (By similarity). Plays an important role in the regulation of the circadian clock: involved in the ubiquitination of the core clock component ARNTL/BMAL1, leading to its proteasomal degradation (PubMed:24728990). Acts as a regulator of synaptic development by mediating ubiquitination and degradation of ARC (PubMed:20211139). Synergizes with WBP2 in enhancing PGR activity (By similarity). [UniProtKB/Swiss-Prot Function]</p>