

Product datasheet for **MC222043**

Ube3a (NM_001033962) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ube3a (NM_001033962) 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: >MC222043 representing NM_001033962
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGCGAGCAGCTGCAAAGCATCTAATAGAACGCTACTACCATCAGTTAACTGAGGGCTGTGAAATG
 AGGCTGCACGAATGAGTTTGTCTTCTGTCCAACCTTTCTTCGTATGGATAACAATGCAGCAGCTAT
 TAAAGCCCTTGAGCTTTATAAAATTAATGCAAACTCTGTGATCCTCATCCCTCCAAGAAAGGAGCAAGC
 TCAGCTTACCTTGAGAACTCAAAGGTGCATCTAACTCAGAGATAAAAATGAACAAGAAGGAAGGAA
 AAGATTTAAAGATGTGATTTACCTAACTGAAGAGAAAGTATATGAAATTTATGAATTTGTAGAGAGAG
 TGAGGATTATCCCTTTAATTCGTGTAATTGGAAGAATATTTCTAGTGTGAGGCACTGGTTCTGAGC
 TTTGCGAAAGTCAAACAGCACACAAAGGAGGAATTGAAATCTCTCAAGAAAAGGATGAAGACAAGGATG
 AAGATGAAAGGAAAAAGCTGCATGTTCTGCTGCTGCTATGGAAGAAGACTCAGAAGCATCTTCTCAAG
 GATGGGTGATAGTTCACAGGGAGACAACAATGTACAAAATTAGTCTGATGATGTGACTGTGGATATT
 GATGCTATTAGAAGGTCTACAGCAGTTTGTCTCGCTAATGAAAAATTAGAACTGCCTTCTGAATGCAC
 TTGTATATCTGTACCTAACGTGGAATGTGATTTGACATATCATAATGTGTATATACTCGAGATCCTAATTA
 TCTCAATTTGTTCAATTTGTAATGGAGAATAGTAATCTCCACAGTCTGAAATATCTGAAATGGCGTTG
 CCATATTTTGCAAAGCTATGTGAAGCTACCCCTTGAAGCTCAAGGAAAAGTATTAGGCTGTGGTCTA
 AATACAGTGTGACCAGATTCGGAGAATGATGGAACATTTTCAGCAACTTATTACCTACAAAGTCATAAG
 CAATGAATTTAATAGCCGAAATCTAGTGAATGATGATGCCATTGTTGCTGCTCAAAGTGTGTTGAAA
 ATGTTTACTATGCAAAATGATGAGGGAGGGATGTGGACAAAATCATAATGAGGAAGATGATGAAGA
 CCATACCTGAGTCCAGCAATTAACACTTCAGGAGCTTCTGGGAGATGAAAGAAGAAATAAGAAAGGTC
 CGAGTGGATCCACTAGAAACCGAACTTGGCGTTAAAACCTAGACTGTGAAAACCACTTATCTCCTTT
 GAAGAATTCATTAAATGAACCACTGAATGATGTTCTAGAAATGGACAAAGATTATACCTTTTTCAAAGTTG
 AAACAGAGAACAATTTCTTTTTATGACATGTCCCTTTATATTGAATGCTGTACAAAAGAACTGGGATT
 ATATTATGACAATAGAATTCGCATGTACAGTGAAGAAGAATCACTGTTCTTTACAGCCTAGTTCAAGGA
 CAGCAGTTGAATCCGATTTTGTGACTCAAAGTCAAGCTGACCATATTATAGATGATGACTGGTCCGGC
 TAGAGATGATTGCTATGGAATACTGCAGACTGAAGAAGCAGTTGATGTGGAATTTGAAGGAGAACA
 AGGAGTAGATGAGGGAGGCGTTTCAAAGAGTTTTTTCAGTTGGTTGTGGAGGAAATTTTAAATCCAGAT
 ATGGTATGTTACATATGATGAAGCTACGAAATTTTTGGTTAATCCATCTCTTTTGAAGTGAAGG
 GTCAGTTTACTCTGATTGGCATAGTCTGGGTCTGGCTATTTACAATAATTGTACTGGATGTCCATTT
 TCCCATGGTTGTATACAGGAAGCTAATGGGGAAAAAGGAACCTTTCGTGACTTGGGAGACTCTACCCCA
 GTTTTATATCAGAGTTTAAAGGATTTATTGGAATATGAAGGGAGTGTGGAAGATGATATGATGACTT
 TCCAGATATCACAGACAGATCTTTTTGGTAACCAATGATGATGATCTAAAAGAAAATGGTGATAAAAT
 TCCAATTACAAATGAAAACAGGAAGGAATTTGTCAATCTCTATTACAGACTACATTCTCAATAAATCTGTA
 GAAAAACAATTAAGGCATTTTCGAGAGGTTTTTCATATGGTGACTAATGAATCGCCCTTAAAATACTTAT
 TCAGACCAGAAGAAATTAAGTTGCTTATATGTGGAAGCCGGAATCTAGATTTCCAGGCACAGAGA
 TACAGAGTATGACGGTGGCTATACGAGGGAATCTGTTGTGATTAGGGAGTTCTGGGAAATTTGTTCTTCCG
 TTTACAGATGAACAGAAAAGACTTTTCTGCAGTTTACAACAGGCACAGACAGACAGCACCTGTTGGAGGAC
 TAGGAAAATTGAAGATGATTATAGCCAAAAATGGCCAGACACAGAAAAGTTACCTACATCTCATACTTG
 CTTAATGTCTTTTACTTCCGGAATTTCAAGCAAAGAAAAACTTAAAGAGAGATTGTTGAAGGCCATC
 ACATATGCCAAAGGATTTGGCATGCTG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001033962
Insert Size: 2550 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:	<u>NM_001033962.1</u> , <u>NP_001029134.1</u>
RefSeq Size:	4910 bp
RefSeq ORF:	2550 bp
Locus ID:	22215
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>