

Product datasheet for **MG225048**

Ube3a (NM_001033962) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ube3a (NM_001033962) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ube3a
Synonyms:	4732496B02; 5830462N02Rik; A130086L21Rik; Hpve6a; mKIAA4216
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225048 representing NM_001033962
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGCGAGCAGCTGCAAAGCATCTAATAGAACGCTACTACCATCAGTTAACTGAGGGCTGTGGAATG
 AGGCTGCACGAATGAGTTTTGTCTTCTGTCCAACCTTTCTTCGTATGGATAACAATGCAGCAGCTAT
 TAAAGCCCTTGAGCTTTATAAAATTAATGCAAACTCTGTGATCCTCATCCCTCCAAGAAAGGAGCAAGC
 TCAGCTTACCTTGAGAACTCAAAGGTGCATCTAACTCAGAGATAAAAATGAACAAGAAGGAAGGAA
 AAGATTTAAAGATGTGATTTACCTAACTGAAGAGAAAGTATATGAAATTTATGAATTTGTAGAGAGAG
 TGAGGATTATCCCTTTAATTCGTGTAATTGGAAGAATATTTCTAGTGTGAGGCACTGGTCTGAGC
 TTTGCGAAAGTCAAACAGCACACAAAGGAGGAATTGAAATCTCTCAAGAAAAGGATGAAGACAAGGATG
 AAGATGAAAGGAAAAAGCTGCATGTTCTGCTGCTGCTATGGAAGAAGACTCAGAAGCATCTTCTCAAG
 GATGGGTGATAGTTCACAGGGAGACAACAATGTACAAAATTAGGTCCTGATGATGTGACTGTGGATATT
 GATGCTATTAGAAGGTTCTACAGCAGTTTGTCTCGCTAATGAAAAATTAGAACTGCCTTCTGAATGCAC
 TTGTATATCTGTACCTAACGTGGAATGTGATTTGACATATCATAATGTGTATACTCGAGATCCTAATTA
 TCTCAATTTGTTCAATTATTGTAATGGAGAATAGTAATCTCCACAGTCTGAAATATCTGGAATGGCGTTG
 CCATTATTTGCAAAGCTATGTGTAAGCTACCCCTTGAAGCTCAAGGAAAAGTATTAGGCTGTGGTCTA
 AATACAGTGTGACCAGATTCGGAGAATGATGGAACATTTACAGCACTTATTACCTACAAAAGTCATAAG
 CAATGAATTTAATAGCCGAAATCTAGTGAATGATGATGATGCCATTGTTGCTGCTCAAAGTGTGTTGAAA
 ATGGTTACTATGCAAAATGATGAGGGAGGGATGTGGACAAAATCATAATGAGGAAGATGATGAAGA
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 CAGCAGTTGAATCCGATTTGAGACTCAAAGTCAAGCTGACCATATTATAGATGATGACTGGTCCGGC
 TAGAGATGATTGCTATGGAAAATCCTGCAGACTGAAGAAGCAGTTGTATGTGGAATTTGAAGGAGAACA
 AGGAGTAGATGAGGGAGGCGTTTCAAAGAGTTTTTTTCAGTTGGTTGTGGAGGAAATTTTAAATCCAGAT
 ATGGTATGTTACATATGATGAAGCTACGAAATTTTGGTTAATCCATCTTCTTTGAAACTGAGG
 GTCAGTTTACTCTGATTGGCATAGTCTGGGTCTGGCTATTTACAATAATTGTACTGGATGTCCATTT
 TCCCATGGTTGTATACAGGAAGCTAATGGGGAAAAAGGAACCTTTCGTGACTTGGGAGACTCTCACCCA
 GTTTTATATCAGAGTTTAAAGGATTTATTGGAATATGAAGGGAGTGTGGAAGATGATATGATGATCACTT
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 GAAAAACAATTAAGGCATTTTCGAGAGGTTTTTCATATGGTGACTAATGAATCGCCCTTAAAATACTTAT
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 ACAGAGTATGACGGTGGCTATACGAGGGAATCTGTTGTGATTAGGGAGTTCTGGGAAATTTGTTCAATTCG
 TTTACAGATGAACAGAAAAGACTTTTCTGCAGTTTACAACAGGCACAGACAGACACCTGTTGGAGGAC
 TAGGAAAATTGAAGATGATTATAGCCAAAAATGGCCAGACACAGAAAAGTTACCTACATCTCATACTTG
 CTTAATGTCCTTTTACTTCCGGAATTTCAAGCAAAGAAAACTTAAAGAGAGATTGTTGAAGGCCATC
 ACATATGCCAAAGGATTTGGCATGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG225048 representing NM_001033962
Red=Cloning site Green=Tags(s)

MKRAAAKHLIERYYHQLTEGCGNEACTNEFCASCPTFLRMDNNAAAIKALELYKINAKLCDPHPSKKGAS
SAYLENSKGASNNSEIKMNKKEGKDFKDVLYL TEEKVYIEIYEFCRESEDYSPLIRVIGRIFSSAEALVLS
FRKVKQHTKEELKSLQEKDEKDEDEKEKAACSAAMEEDSEASSRMGDSSQGDNNVQKLGDDVTVDI
DAIRRVYSLLANEKLETAFLNALVYLSPNVECDLTYHNVYTRDPNYLNLFIIVMENSNLHSPEYLEMAL
PLFCKAMCKLPLEAQGKLIRLWSKYSADQIRMMETFQQLITYKVISNEFNRSNLVNDDAIVAASKCLK
MYYANVVGDDVDTNHNEEDDEEPIPESELTLQELLGDERRNKKGPRVDPLETELGVKTLDCRKPLISF
EEFINEPLNDVLEMDKDYTFKVVETENKFSFMTCPFILNAVTKNLGLYYDNRIRMYERRITVLYSLVQG
QQLNPYLRLKVRDHIIDDALVRLEMIAMENPADLKKQLYVEFEGEQGVDEGGVSKEFFQLVVEEIFNPD
IGMFTYDEATKLFWFNPSSFETEGQFTLIGIVLGLAIYNNCILDVHFPMVVYRKLGMKKGTFRDLGDSHP
VLYQSLKDLLEYEGSVEDMMITFQISQTDLFGNPMYDLKENGDKIPITNENRKEFVNL YSDYILNKSV
EKQKAFRRGFHMVTNESPLKYLFRPEEIELLIGSRNLDFQALEETTEYDGGYTRESVIREFWEIVHS
FTDEQKRLFLQFTTGTDRAPVGGGLKLMIIAKNGPDERLPTSHTCFNVLLLPEYSSKEKLERLLKAI
TYAKGFGL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

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_001033962.2](#)

RefSeq Size: 4910 bp

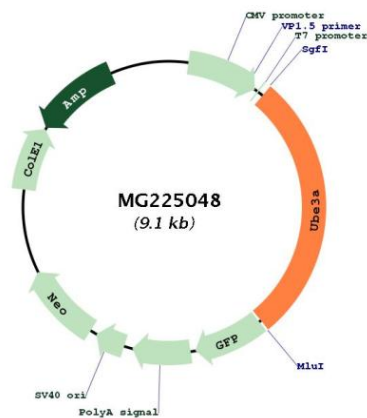
RefSeq ORF: 2550 bp

Locus ID: 22215

Cytogenetics: 7 33.95 cM

Gene Summary: 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]

Product images:



Circular map for MG225048