

Product datasheet for **MG210961**

Ube4a (NM_145400) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ube4a (NM_145400) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ube4a
Synonyms:	4732444G18Rik; 9930123J21Rik; UFD2b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210961 representing NM_145400
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGTGAGCAACTCAACATCAATCACATGATCCAGAGGATCTTCTCATCACCTGGACAACAGTGATC
 CAAGCTTGAAAAGCGGGAATGGCATCCCCAGCCGTTGTGTGACTTGGAAGAAATGGCAGTAGAGCTGGA
 AGATCAAGACTGGCTTGATATGAGCAATGTTGAGCAGGCCATCTTTGCTCGATTATTGCTCAAGATCCA
 GAAAACCACTTGATCAGCATGACTTCTCCACAACCTTTAAATCTCTCTGCTGATCGTGATGCAGGAGAGA
 GGCACATCTTCTGTTACCTTTACTCCTGCTCCAGAGAGCCAAGGAAGAGATTACCAAAGTTCCAGAAAA
 CCTACTCCCTTTGCAGTGCAGTGCAGAAACCTCACTGTGTCCAACACTCGAACAGTTTCTCTCACCCCA
 GAGATCTATGTTGACAAAACATCCATGAGCAACTGGTAGATTTGATGTTGGAAGCTATTCAGGGAGCCC
 ATTTTGAAGATGTAAGTGAATTTTGAAGAGGTCATTGAAGCCTTGCTGTTGGATGAGGAGGTTTGAAC
 ATTTCTGAAGTCATGATTCCAGTGTGATATTTACTCAGCCGAATAAAGATCTGGAAGTCTGCCAG
 ATCCTCCTGTATGCATATCTGGACATTCTCTCTATTTCACTAGGCAGAAAGGATATGGCCAAAGGTGTTTT
 TAGAATACATTACGCCAAGGATCCCAGCAATGGCAGATGTATCAGAAGACCTTGCTGGGAGTCATCCT
 GAATATCTCGTGCTTGTAAAGACTCCGGGTGTGGTAGAGAACCATGGCTTCTTCTGAATCCATCCCGT
 TCCAGTCTCAGGAGATCAAAGTACAGGAGGCCAACATCCATCAGTTCATGGCTCAGTCCATGAAAAGA
 TCTACCAGATGCTGAAGAAGTGTCTCCAGCTCTCTCCAGAAACCAAGCACTGTATCTTGTCTGGCTTGG
 AAAGTGTGTCATGCAATGCAGGCCGACCAAGATCTGGGCCAATCAGATGCCCGAAATCTTCTCCAA
 ATGTATGCCTCGGATGCCTTCTTCTGAATCTGGGTGCTGCCCTCCTGAAGCTGTGCCAGCCATTCTGCA
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 ACGAAAAATTAAGTGTGCATATGAGAGGTTTGGACAAGGAGACCTGTCTGATCCAGCTGTGCAGGAG
 CCAATGTTCCCCAGAGCTACAACCTTGTGACGGAGAACCCTGGCCCTGACAGAGTATACCTGTACTTGG
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 GGATGCTCAGCAGAGTTCTAGCCCTGCTGCTGACAATCTCCGTGAGCAGTTCGAACGCCTGATGACCATC
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 TGGCTGTTCTGCTGGTTCAACTGGCCATAGGCAATGAGGGCTCCAGCCAATAGAAGTAAAGTTCCCTTT
 GCCAGATGGCTACAGCTTTGGCTTATGTGCCAGAATTTTTGCAGATAACTTGGGTGATTTCTCATT
 TTCTCCGGCGCTTTGCTGAGGACATCTTGAGACGTCAGCAGACTCCCTGGAGCATGTCCTTCATTTTA
 TACCATTTTCACTGGAAGCATAGAAAAGTGAAGAATCCTCACCTGAGGGCCAAACTAGCAGAGGTGTT
 AGAAGCAGTGATGCCTCACCTAGACCAGACCCCAAGCCCTTGGTGTCCAGTGTGTTCCACCGAAACGT
 GTGTTCTGCAACTTTCCATACGCTCCCCAAGTGCAGAAGCTTTGATCAAGGTGTTTGTGGACATCGAGT
 TTACAGGGGACCCCATCAATTTGAACAGAAGTTAATTACCGCCGCTCTATGTATCCCATCCTAAGATA
 CATGTGGGGACAGATTGCTATCGGGAGAGCATTAAAGGATTTGGCTGACTATGCCTTAAGAATTTAGAA
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 GACACCAGAAGCCCGCCGAGAGAAAGAGGCAGGCTGCAGATGTTTGGCAGCTGGCACGGTTCCATAAC
 ATCATGTCCAATGAAACAATTGGTACCCTTTCTTCTGACATCAGAGATCAAGTCGCTGTTTGTGCATC
 CGTTCCTGGCCGAGCGCATCATCTCCATGCTCAACTACTTCTGACGACCTGGTGGGCCCAAGATGGG
 TGCCCTCAAAGTCAAGGACTTCAGCGAATTTGACTTCAAACCTCAGCAGCTCGTATCAGACATCTGCACT
 ATCTACTAAATCTTGGGTATTTGAGATTGGTGTGAGAAAGCCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG210961 representing NM_145400
 Red=Cloning site Green=Tags(s)

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MCEQLNINHMIQRIFLITLDNSDPSLKSNGIPSRVYLEEMAVELEDQDWLDMSNVEQAI FARLLLQDP
GNHLISMTSSTLNL SADR DAGERHIFCYLYSCFQRAKEEITKVPENLLPFAVQCRNLTVSNTRTVLLTP
EIIYVDQNIHEQLVDLMLEAIQGAHFEDVTEFLEEVI EALLLDEEVRTFPEVMIPVFDILL SRIKDLELCQ
ILLYAYLDILLYFTRQKDMAKVFLEYIQPKDPSNGQMYQK TLLGVILNISCLLKTG VVENHGFFLNPSR
SSPQEIKVQE ANIHQFMAQFHEKIYQMLKNLLQLSPETKHCILFWLGNCLHANAGRTKI WANQMPEIFFQ
MYASDAFFLNLGAALLKLCQPFCKPRSSRLLTFNPTYCVLKD LND EERKIKSVHMRGLDKETCLIPAVQE
PMFPQSYNLVTENLALTEYTYLGFHRLHDQMVKINQNLHRLQVAWRDAQSSSPAADNLREQFERLMTI
YLSTKTAMTEPQMLQNCLNLQVSMAVLLVQLAIGNEGSQP IELSFPLPDGYSSLA YVPEFFADNLGDFLI
FLRRFAEDIETSADSLEHVLHFITIFTGSIERMKNPHLR AKLAEVLEAVMPHLDQTPSPLVSSVFHRKR
VFCNFPYAPQLAEALIKVFDIEFTGDPHQFEQKFN YRRPMYPILRYMWGTD CYRESIKDLADYASKNLE
AMNPPLFLRFLNLLMND AIFLLDEAIQYLSKIKIQQIEKDRGEWESL TPEARREKEAGLQMFGLARFHN
IMSNETIGTLSFLTSEIKSLFVHPFLAERII SMLNYFLQHLVGPKMGALKVKDFSEFDKPKQLVSDICT
IYLNGLYLRLVLRKP
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



EcoR I
BamH I Kpn I
RBS
Kozac Consensus
Sgf I
Asc I

CTATAGGGCGCGCGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCCGATCGCCGGCGGCCAGATCT

Hind III
Nhe I Rsr II
Mlu I
Not I
Xho I
GFP Tag

CAAGCTTAAGTACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC - - - - -

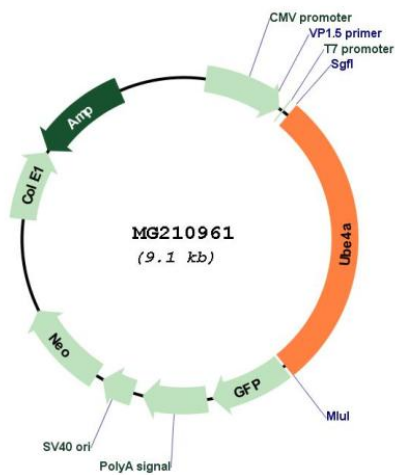
T	R	T	R	P	L	E	M	E	S	D	-	-	-
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Pme I
Fse I

- - - - GAA GAA AGA GTT TAA ACGGCGCGCCGGGAGCT

-	-	E	E	R	V	Stop
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Plasmid Map:



ACCN:	NM_145400
ORF Size:	2565 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:	<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_145400.2 , NP_663375.2
RefSeq Size:	3400 bp
RefSeq ORF:	3087 bp
Locus ID:	140630
UniProt ID:	E9Q735
Cytogenetics:	9 A5.2
Gene Summary:	Ubiquitin-protein ligase that probably functions as an E3 ligase in conjunction with specific E1 and E2 ligases. May also function as an E4 ligase mediating the assembly of polyubiquitin chains on substrates ubiquitinated by another E3 ubiquitin ligase. Mediates 'Lys-48'-linked polyubiquitination of substrates.[UniProtKB/Swiss-Prot Function]