

Product datasheet for **RG201446**

UBA1 (NM_003334) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBA1 (NM_003334) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UBA1
Synonyms:	A1S9; A1S9T; A1ST; AMCX1; CFAP124; GXP1; POC20; SMAX2; UBA1A; UBE1; UBE1X; VEXAS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201446 representing NM_003334 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCAGCTCGCCGCTGTCCAAGAAACGTGCGTGTCCGGCCCTGATCCAAAGCCGGTTCTAACTGCT
CCCCTGCCAGTCCGTGTTGTCCGAAGTGCCCTCGGTGCCAACCAACGGAATGGCCAAGAACGGCAGTGA
AGCAGACATAGACGAGGGCCTTTACTCCGGCAGCTGTATGTTGGCCATGAGGCAATGAAGCGGCTC
CAGACATCCAGTGTCTGGTATCAGGCCTGCGGGCCTGGGCGTGGAGATCGCTAAGAACATCATCCTTG
GTGGGTCAAGGCTGTTACCCTACATGACCAGGGCACTGCCAGTGGGCTGATCTTCTCCAGTTCTA
CCTGCGGGAGGAGACATCGGTAAAAACCGGGCCGAGGTATCACAGCCCCGCTCGCTGAGCTCAACAGC
TATGTGCCTGTCACTGCCTACACTGGACCCCTCGTTGAGGACTTCCTTAGTGTTCCAGGTGGTGGTGC
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GGGCTGGGCTGCGGGGAGGGTGGAGAAATCATCGTTACAGACATGGACACCATTGAGAAGTCAAATCTGA
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CTGCCAAGCTCAAGGAACGGTTGGATCAGCCGATGACAGAGATTGTGAGCCGTGTGTCGAAGCGAAAAGCT
GGGCCCGCCAGTGCAGGGCGCTGGTCTGAGCTGTGCTGTAAACGACGAGAGCGGCCGAGGATGTCGAGGTT
CCCTATGTCCGATACACCATCCGC
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG201446 representing NM_003334

Red=Cloning site Green=Tags(s)

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MSSSPLSKKRRVSGPDPKPGSNCSQAQSVLSEVPSVPTNGMAKNGSEADIDEGLYSRQLYVLGHEAMKRL
QTSSVVLVSLRGLGVEIAKNIILGGVKAVTLHDQGTAWADLSSQFYLREEDIGKNRAEVSQPRLAELNS
YVPVTAYTGPLVEDFLSGFQVVVLTNTPLEDQLRVGEFCHNRGIKLVVADTRGLFGQLFCDFGEEMILTD
SNGEQPLSAMVSMVTKDNPVVTCLDEARHGFESGDFVSFSEVQGMVELNGNQPMKIKVLGPYTFSDICTD
SNFSDYIRGGIVSQVKVPKKISFKSLVASLAEPDFVVTDFAKFSRPAQLHIGFQALHQFCAQHGRPPRPR
NEEDAELVALAQAVNARALPAVQQNNLDEDLIRKLAYVAAGDLAPINAFIGGLAAQEVKACSGKFMPI
MQWLYFDALCLPEDKEVLTEDKCLQRQNRDQVAVFGSDLQEKLGKQKYFLVGAGAIGCELLKNFAMI
GLGCGEGGEIIVTDMDTIEKSNLNRQFLFRPWDVTKLKSDTAAAQVRQMNPHIRVTSQNRVGPDTERIY
DDDFQNLQDGVANALDNVDARMYMDRRCVYYRKPLESGLTGKGNVQVVIPFLTESYSSSQDPPEKSIP
ICTLKNFPNAIEHTLQWARDEFEGFLFKQPAENVNQYLTPKFVERTLRLAGTQPLEVLEAVQRSLVLRP
QTWADCVTWACHHWHYQYSNNIRQLLHNFPPDQLTSSGAPFWSGPKRCPHPLTFDNNPLHLDYVMAAAN
LFAQTYGLTGSQDRAAVATFLQSVQVPEFTPKSGVKIHVSDQELQSANASVDDSRLEELKATLPSDKLP
GFKMYPIDFEKDDSNFHMDFIVAASNLRAENYDIPSAHRHKSILAGKIIPAIATTTAAVVGLVLELY
KVVQGHRQLDSYKNGFLNLALPFFGFSEPLAAPRHQYNNQEWTLWDRFEVQGLQPNGEEMTLKQFLDYFK
TEHKLEITMLSQGVSMLYSFFMPAAKLERLDQPMTEIVSRVSKRKLGRHVRLVLELCCNDESGEDVEV
PYVRYTIR
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TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_003334

ORF Size: 3174 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_003334.4](#)

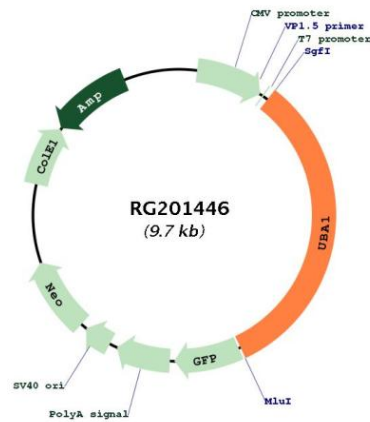
RefSeq Size: 3504 bp

RefSeq ORF: 3177 bp

Locus ID: 7317

UniProt ID: [P22314](#)
Cytogenetics: Xp11.3
Domains: UBACT, ThiF
Protein Pathways: Parkinson's disease, Ubiquitin mediated proteolysis
Gene Summary: The protein encoded by this gene catalyzes the first step in ubiquitin conjugation to mark cellular proteins for degradation. This gene complements an X-linked mouse temperature-sensitive defect in DNA synthesis, and thus may function in DNA repair. It is part of a gene cluster on chromosome Xp11.23. Alternatively spliced transcript variants that encode the same protein have been described. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG201446