

## Product datasheet for **RG219024**

### UBE3B (NM\_130466) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UBE3B (NM_130466) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UBE3B
Synonyms:	BPIDS; KOS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219024 representing NM_130466 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTACCCCTGTCTCAGACCTCGAGAGCATGGTTCATCGATAGAGCCCGTCAGGCACGAGAAGAAAGGC  
TTGTGCAGAAGGAACGGGAGCGGGCAGCTGTTGTGATCCAGGCCCATGTCCGGAGTTTTCTGTGCGGAG  
TCGACTGCAGAGAGATATCAGGAGAGAGATTGATGACTTTTTAAAGCAGATGACCCTGAGTCCACTAAA  
AGAAGTGCACCTTTGATTTTCAAGATTGCCAGGAACTGCTGTTCTATTCAAGATCAAAGAGGATAATG  
AGAGATTTGAGAAGTTGTGTCGACGATCCTGAGCAGCATGGATGCTGAGAATGAGCCTAAGGTGTGGTA  
TGTGTCCCTGGCTTGTCTAAGGACCTCACCTCCTTTGGATTCAACAGATCAAGAACATTTTGTGGTAC  
TGCTGTGATTTTCTCAAGCAGCTCAAGCCTGAAATCCTGCAGGACTCCCGACTCATCACCTGTACCTCA  
CGATGCTTGTACCTTCACAGACTTCAACGTGGAAAATTTCTCGGGGAAAAGGTGAAAGTCTTCGACC  
AGCGATGAACCACATTTGTGCAATATAATGGGACATCTCAACCAGCATGGATTTTATTCTGTGCTGCAG  
ATATTGTTAACCCGTGGCCTGGCAAGACCCCGTCTTGTCTATCCAAAGGCATTTAACAGCAGCTTTTT  
CTCTAGCGTTACGCCCTGTGATTGCTGCACAGTCTCAGACAATCTGATTCGGCCGTTCTCATCCACAT  
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TCAGGCCGTGTCGGGGTAAACGGGTCGACTCTGCAGAAGTCCAGAAGTTTGAACATCTGTGCTCCTCA  
CCAGACCTCGTGACAACCTCACACAGATTCCGCTGCAGATACTCACAGGTCTCACTTACCTTGATGAC



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CTGCTTCCAAACTGTGGGCATTTATCTGTGAGCTCGGGCCCCACGGAGGGTTAAAGCTCTTCTTGAAT
GCCTGAACAATGACACTGAAGAGTCCAAGCAACTCTTGGCCATGCTGATGCTGTTCTGTGACTGTTCCGC
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GGATTGATCAAGACGGTGTTTTTAAGGAGTTCTTGAAGAGATCATCAAGAGAGTTTTTGACCCAGCACT
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AGACCCCGCTCCTGGGATTCGCTACCTCAAGCTCCATTCTCCATCCGCTGCGTGGAGGTGTCGGACG
ATCAGGACACCGGGGACACTCTGGGCAGCGTCTCCGGGGCTTCTCACCATCCGCAAGCGGGAGCCAGG
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CTCCGCGAGAAGTCTGCGCTACGCCATCAGCATGAACACGGGCTTTGAACTCTCC

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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG219024 representing NM\_130466

Red=Cloning site Green=Tags(s)

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MFTLSQTSRAWFIDRRARQAREERLVQKERERAAVVIQAHVRSFLCRSRLQRDIRREIDFFKADDPSTK
RSALCIFKIARKLLFLRIKEDNERFEKLCRSILSSMDAENEPKVWYVSLACSKDLTLLWIQQIKNILWY
CCDFLKQLKPEILQDSRLITLYLTMLVTFDTSTWKILRGKESLRPAMNHICANIMGHLNQHGFYSVLQ
ILLTRGLARPRPCLSKGTLTAAFSALALRPVIAAQFSDNLIRPFLIHIMSVPALVTHLSTVTPERTVLES
HDMLRKFIIIFLRDQDRCDVCELEGCHTLCLMGNLLHLGSLSPRVLEETDGFVSLLTQTLCYCRKYVS
QKKNLTHWHPVLGWFSQSVDYGLNESMHLITKQLQFLWGVPLIRIFFCDILSKLLESQEPAAHAQPASP
QNVLPVKSLKRAFQKSASVRNLRPVGGKRVDSAEVQKVCNICVLYQTSLTTLTQIRLQILTGLTYLDD
LLPKLWAFICELGPHGGLKLFLECLNNDTEESKQLLAMLMFCDCSRHLITLDDIEVYEEQISFKLEEL
VTISSFLNSFVKMIWDGIVENAKGETLELFQSVHGWLMVLYERDCRRRFTPEDHWLRKDLKPSVLFQEL
DRDRKRAQLILQYIPHVIPHKNRVLLFRMTVTKKEKGLVETSSASPHVTHITIRRSRMLLEDGYEQLRQ
LSQHAMKGVIRVKFVNDLGVDEAGIDQDGVFKEFLEEIIKRVFDPALNLFKTTSGDERLYPSPTSYPHEN
YLQLFEFVGKMLGKAVYEGIVVDVVPFASFLLSLLGHHHSVFYSSVDELPSLDSEFYKNLTSIKRYDGI
TDLGLTLYDEDVMGQLVCHELIPGGKITPVTNENKISYIHLMAHFRMHTQIKNQTAALISGFRSIIKPE
WIRMFSTPELQRLISGDNAEIDLEDLKKHTVYGGFVGGSHRVIWLWDILASDFTPDERAMFLKFTVSCS
RPPLLGFAYLKPPFSIRCVEVSDDQDGTDLGSVLRGFFTIRKREPGGRLPTSSTCFNLKLPNYSKKS
LREKLRYAISMNTGFELS

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TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_130466

**ORF Size:** 3204 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\\_130466.4](#)

**RefSeq Size:** 5753 bp

**RefSeq ORF:** 3207 bp

**Locus ID:** 89910

UniProt ID: [Q7Z3V4](#)

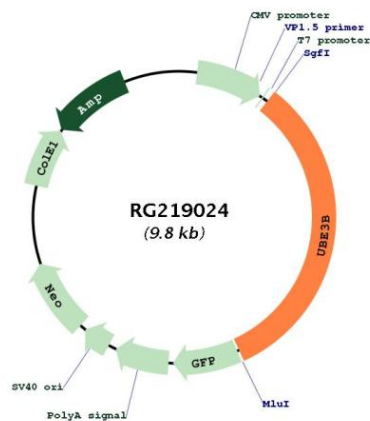
Cytogenetics: 12q24.11

Protein Families: Druggable Genome

Protein Pathways: Ubiquitin mediated proteolysis

**Gene Summary:** The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: E1 ubiquitin-activating enzymes, E2 ubiquitin-conjugating enzymes, and E3 ubiquitin-protein ligases. This gene encodes a member of the E3 ubiquitin-conjugating enzyme family which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme and transfers the ubiquitin to the targeted substrates. A HECT (homology to E6-AP C-terminus) domain in the C-terminus of the longer isoform of this protein is the catalytic site of ubiquitin transfer and forms a complex with E2 conjugases. Shorter isoforms of this protein which lack the C-terminal HECT domain are therefore unlikely to bind E2 enzymes. Alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2012]

### Product images:



Circular map for RG219024