

Product datasheet for **RG233532**

UBE3B (NM_001270449) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: UBE3B (NM_001270449) 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: >RG233532 representing NM_001270449
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTACCCCTGTCTCAGACCTCGAGAGCATGGTTCATCGATAGAGCCCGTCAGGCACGAGAAGAAAGGC
 TTGTGCAGAAGGAACGGGAGCGGGCAGCTGTTGTGATCCAGGCCCATGTCCGGAGTTTTCTGTCTCGGAG
 TCGACTGCAGAGAGATATCAGGAGAGAGATTGATGACTTTTTTAAAGCAGATGACCCTGAGTCCACTAAA
 AGAAGTGCACCTTTGTATTTTCAAGATTGCCAGGAAACTGCTGTTCTTTCAGAAATCAAAGAGGATAATG
 AGAGATTTGAGAAGTTGTGTCGAGCATCCTGAGCAGCATGGATGCTGAGAATGAGCCTAAGGTGTGGTA
 TGTGTCCCTGGCTTGTCTAAGGACCTCACCTCCTTTGGATTCAACAGATCAAGAACATTTTGTGGTAC
 TGCTGTGATTTTCTCAAGCAGCTCAAGCCTGAAATCCTGCAGGACTCCCGACTCATCACCTGTACCTCA
 CGATGCTTGTACCTTCACAGACTTCAACGTGGAAAATTTCTCGGGGAAAAGGTGAAAGTCTTCGACC
 AGCGATGAACCACATTTGTGCAATATAATGGGACATCTCAACCAGCATGGATTTTATTCTGTGCTGCAG
 TGCTGTGATGGGCTGTTTCTGATTTGGTTTCATATGCTCCTCACAACAACCTGTGAGGTGGTCCGTTG
 GCAGAAGCTGGTATGACTGGCAGTTGTCTCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233532 representing NM_001270449
 Red=Cloning site Green=Tags(s)

MFTLSQTSRAWFIDRARQAREERLVQKERERAAVVIQAHVRSFLCRSRLQRDIRREIDDFKADDPSTK
 RSALCIFKIARKLLFLFRIKEDNERFEKLCRSILSSMDAENEPKVWYVSLACSKDLTLLWIQIKNILWY
 CCDFLKQLKPEILQDSRLITLTLVTFDTSTWKILRGKESLRPAMNHICANIMGHLNQHGFSYVLQ
 CCDGLFPDLVSYAPHNNPVRWSVGRSWYDWQLSR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001270449

ORF Size: 732 bp

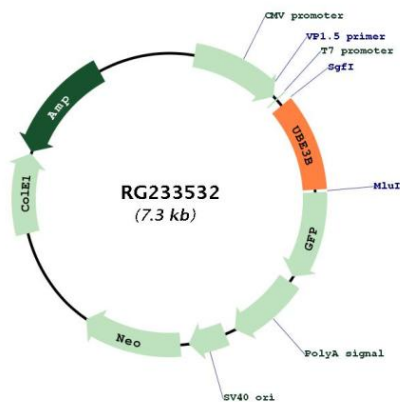
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_001270449.1 , NP_001257378.1
RefSeq Size:	1491 bp
RefSeq ORF:	735 bp
Locus ID:	89910
UniProt ID:	Q7Z3V4
Cytogenetics:	12q24.11
Protein Families:	Druggable Genome
Protein Pathways:	Ubiquitin mediated proteolysis
Gene Summary:	<p>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]</p>

Product images:



Circular map for RG233532