

Product datasheet for **RC233533**

UBE3B (NM_001270450) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: UBE3B (NM_001270450) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: UBE3B
Synonyms: BPIDS; KOS
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC233533 representing NM_001270450
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCCACCTGTCTCAGACCTCGAGAGCATGGTTCATCGATAGAGCCCGTCAGGCACGAGAAGAAAGGC
TTGTGCAGAAGGAACGGGAGCGGGCAGCTGTTGTGATCCAGGCCCATGTCCGGAGTTTTCTGTCTCGGAG
TCGACTGCAGAGAGATATCAGGAGAGAGATTGATGACTTTTTAAAGCAGATGACCCTGAGTCCACTAAA
AGAAGTGCACCTTTGTATTTCAAGATTGCCAGGAACTGCTGTTCTATTTCAGAATCAAAGAGGATAATG
AGAGATTTGAGAAGTTGTGTCGAGCATCCTGAGCAGCATGGATGCTGAGAATGAGCCTAAGGTGTGGTA
TGTGTCCCTGGCTTGTCTAAGGACCTCACCTCCTTTGGATTCAACAGATCAAGAACATTTTGTGGTAC
TGCTGTGATTTTCTCAAGCAGCTCAAGCCTGAAATCCTGCAGGACTCCCGACTCATCACCTGTACCTCA
CGATGCTTGTACCTTCACAGACTTCAACGTGGAAAATTTCTCGGGGAAAAGGTGAAAGTCTTCGACC
AGCGATGAACCACATTTGTGCAATATAATGGGACATCTCAACCAGCATGGATTTTATTCTGTGCTGCAG
TGCTGTGATGGGCTGTTTCTGATTTGGTTTCATATGCTCCTCACAACAACCTGTGAGGTGGTCCGTTG
GCAGAAGCTGGTATGACTGGCAGTTGTCTCGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC233533 representing NM_001270450
 Red=Cloning site Green=Tags(s)

MFTLSQTSRAWFIDRARQAREERLVQKERERAAVVIQAHVRSFLCRSRLQRDIRREIDDFKADDPSTK
 RSALCIFKIARKLLFLFRIKEDNERFEKLCRSILSSMDAENPKVWYVSLACSKDLTLLWIQIKNILWY
 CCDFLKQLKPEILQDSRLITLYLTMLVTFDTSTWKILRGKGESLRPAMNHICANIMGHLNQHGIFYSLQ
 CCDGLFPDLVSYAPHNNPVRWSVGRSWYDWQLSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001270450

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:

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_001270450.1](#), [NP_001257379.1](#)

RefSeq Size: 1146 bp

RefSeq ORF: 735 bp

Locus ID: 89910

UniProt ID: [Q7Z3V4](#)

Cytogenetics: 12q24.11

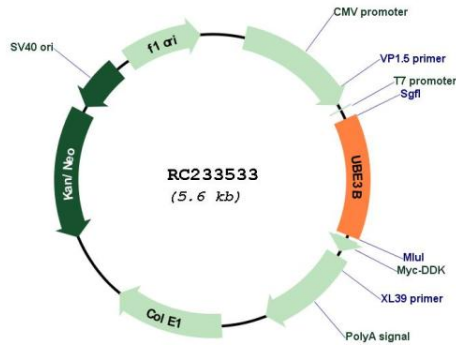
Protein Families: Druggable Genome

Protein Pathways: Ubiquitin mediated proteolysis

MW: 29.4 kDa

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 RC233533