

## Product datasheet for **SC110718**

### **UBE3B (NM\_183415) Human Untagged Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                    |
| Product Name:             | UBE3B (NM_183415) Human Untagged Clone |
| Tag:                      | Tag Free                               |
| Symbol:                   | UBE3B                                  |
| Synonyms:                 | BPIDS; KOS                             |
| Mammalian Cell Selection: | None                                   |
| Vector:                   | <u><a href="#">pCMV6-XL4</a></u>       |
| E. coli Selection:        | Ampicillin (100 ug/mL)                 |



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_183415, the custom clone sequence may differ by one or more nucleotides

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ATGTTACCCCTGTCTCAGACCTCGAGAGCATGTTTCATCGATAGAGCCCGTCAGGCACGAGAAGAAAGGC
TTGTGCAGAAGGAACGGGAGCGGCAGCTGTTGTGATCCAGGCCCATGTCGGAGTTTTCTCTGTCGGAG
TCGACTGCAGAGAGATATCAGGAGAGAGATTGATGACTTTTTTAAAGCAGATGACCTGAGTCCACTAAA
AGAAGTCACTTTGTATTTTCAAGATTGCCAGGAACTGCTGTTCTATTAGAATCAAAGAGGATAATG
AGAGATTTGAGAAGTTGTGTCGACGATCCTGAGCAGCATGGATGCTGAGAATGAGCCTAAGGTGTGGTA
TGTGTCCCTGGCTTGTCTAAGGACCTCACCTCCTTTGGATTCAACAGATCAAGAACATTTTGTGGTAC
TGCTGTGATTTTCTCAAGCAGCTCAAGCCTGAAATCCTGCAGGACTCCCGACTCATCACCTGTACTCTCA
CGATGCTTGTACCTTACAGACACTTCAACGTGGAAAATTCTTCGGGGAAAAGGTGAAAGTCTTCGACC
AGCGATGAACCACATTTGTGCAATATAATGGGACATCTCAACCAGCATGGATTTTATTCTGTGCTGCAG
ATATTGTTAACCCGTGGCCTGGCAAGACCCCGTCTTGTCTATCCAAAGGCACTTAAACAGCAGCTTTTT
CTCTAGCGTTACGCCCTGTGATTGCTGCACAGTCTCAGACAATCTGATTCGGCCGTTCTCATCCACAT
CATGTCTGTGCCTGCTCTGGTGACTCATCTCAGCACAGTGACCCCTGAGCCGCTCACTGTTTTAGAAATCC
CATGACATGCTTCGTAATTCATCATATTTTTAAGAGACCAAGATCGATGCCGTGATGTATGTGAAAGTT
TAGAAGGATGCCATACGCTTTGTCTAATGGGCAACCTCCTACACTTGGGCTCCCTCAGCCCCAGAGTGTT
AGAGGAGGAGACAGATGGGTTCTGTGAGTTTGTCCACCCAGACGCTGTGCTACTGTGCGAAGTATGTGCT
CAGAAGAAGTCCAACCTGACCCACTGGCATCCTGTCTTGGCTGGTTCTCCCAATCTGTGGATTATGGCC
TTAACGAGTCAATGCACTTGATCACC AACAGCTGCAGTCTTGTGGGGGTGCCTCTGATCCGGATCTT
CTTCTGTGACATCCTGAGCAAGAAGTCTCCTAAAGCTGCTTTTTCAAAGTGGCATCAGTCCGGAATTC
CAGAAGTGTCTCCAGTGAAGAGTCTCCTAAAGCTGCTTTTTCAAAGTGGCATCAGTCCGGAATTC
TCAGGCCGTGTCGGGGTAAACGGGTGACTCTGCAGAAGTCCAGAAGTTTGAACATCTGTGCTCCTTA
CCAGACCTCGCTGACAACTCTCACACAGATTCCGCTGCAGATACTCACAGGTCTCACTTACCTTGATGAC
CTGCTTCCCAAATGTGGCATTATCTGTGAGCTCGGGCCACGGAGGGTTAAAGCTCTTCTTGAAT
GCCTGAACAATGACACTGAAGAGTCCAAGCAACTCTTGGCCATGCTGATGCTGTTCTGTGACTGTTGCGG
GCACCTCATCACAATCCTTGATGACATTGAAGTTTATGAAGAACAGATTTCACTCAAAGTGAAGAGCTG
GTCATATCTCCTCTTCTGAATTCTTTGTGTTAAGATGATCTGGGATGGAATTGTAGAGAACGCCA
AGGGTGAACCTTGGAGCTGTTCCAGTCTGTCCACGGGTGGCTTATGGTGTGTACGAGCGGGACTGCCG
GCGGGCTTACCCCGAGGACACTGGCTGCGAAAGGATCTCAAACCTAGCGTGTCTTCCAAGAACTC
GACAGGGACAGAAAACGGGCACAGTTGATCCTGCAGTACATCCCACATGTCATCCCTCACAAAAACAGAG
TTCTACTGTTTCAACCATGTTTACCAAGGAGAAGGAGAACTGGGGCTGGTGGAAACAGCTCTGCCTC
CCCGCATGCACTCACATCACCATCCGCGGTCCAGGATGCTGGAGGACGGCTACGAGCAGCTTAGGCAG
CTCTCCAGCAGCCATGAAGGGGGTATCCGTGTGAAGTTTGTCAATGACCTCGGGGTGGACGAAGCAG
GGATTGATCAAGACGGTGTTTTTAAGGAGTCTTGAAGAGATCATCAAGAGAGTTTTTGACCCAGCACT
CAATCTGTTCAAGACAACCAGTGGGGATGAGAGGCTGTACCCCTACCCACATCTACATCCATGAGAAT
TACCTGCAGCTCTTCGAGTTTGTGGGAAGATGCTGGGAAGGCTGTGTATGAGGGAATTGTGGTGGACG
TGCCATTTGCATCCTTCTCCTGAGCCAACTGCTTGGCACCACACAGCGTCTTCTATAGCTCGGTGGA
TGAATGCCTTCTGGACTCCGAGTTCTATAAAAACCTCACCTCCATCAAGCGCTATGATGGGGACATC
ACTGACCTGGGCCTGACGCTGTCTTACGACGAGGACGTCATGGGTGAGCTTGTGGCCATGAACTGATTC
CTGGAGGGAAGACCATTCTGTTACAAATGAAAATAAAATTAGCTACATCCATCTGATGGCACATTTTCG
AATGCACACTCAAATAAAAAACCAACAGCTGCCCTCATTAGCGGATTCGGTTCATTATCAAACCCGAG
TGGATCCGAATGTTCTCAACTCCTGAACTGCAGCGTCTCATCTCTGGCACAATGCTGAGATTGATCTGG
AAGATTTAAGAAGCACACAGTCTACTACGGTGGTTCCATGGAAGTACAGAGTATCATCTGGCTCTG
GGATTTCTGGCCTCCGACTTACACCCGATGAGAGAGCTATGTTTCTGAAGTTCGTGACCAGCTGTCC
AGACCCCGCTCCTGGGATTCGCTACCTCAAGCCTCCATCTCCATCCGCTGCGTGGAGGTGTCGGACG
ATCAGGACACCGGGGACTCTGGGCAGCGTCCCGGGGCTTCTCACCATCCGCAAGCGGGAGCCAGG
CGGCCGCTGCCACCTCCTCCACTGTTCAACCTGCTCAAGCTGCCAACTACAGCAAGAAGAGCGCT
CTCCGCGAGAAGCTGCGTACGCCATCAGCATGAACACGGGCTTTGAACTCTCCTAG
    
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_183415 unedited  
 TTGTATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGGTAGTGCCTCGGCT  
 GCTGCCCGGGTCTGGCAGAAGCTCGGGTGTGGGGCTGAGACAGTGGCAGCTGCGGCC  
 CGACCCCAAGTGCGGGGACCTCCGGCGAATAAAGAAAAATAACAAGCTTTTCTGAAGTG  
 AGAAGCTGTTCTCAGCCACGAGTCTGTGCAAGTCACTAATGATTACCTGGCATTCTG  
 CGACACAGGCAGGTCCTCAGGGTTGTGCAAGTTTGCAACATGTTCCACCCTGTCTCAGA  
 CCTCGAGAGCATGGTTTCATCGATAGAGCCCGTCAGGCACGAGAAGAAAGGCTTGTGCAGA  
 AGGAACGGGAGCGGCAGCTGTTGTGATCCAGGCCATGTCCGGAGTTTTCTCTGTCGGA  
 GTCGACTGCAGAGAGATATCAGGAGAGAGATTGATGACTTTTTAAAGCAGATGACCCTG  
 AGTCCACTAAAAGAAGTGCACTTTGTATTTTCAAGATTGCCAGGAACTGCTGTTCTAT  
 TCAGAATCAAAGAGGATAATGAGAGATTNGAGAAGTTGTGTCGCAGCATCCTGAGCAGCA  
 TGGATGCTGAGAATGAGCCTAAGGGTGTGGTATGTGTCCTGGGCTTGTCTAAGGACC  
 TCACCCTCTTTGGATTCAACAGATAAGACATTTTTGGGGTACTGCTGGGGATTTTCT  
 CAAGCAGCTCAAGCCTGAAATCCTGCAGGACTCCGACTCATCACCTGTACCTACGGAT  
 GCTTGTACCTTCACAGACCTTCACGGTGGGAAATTTCTCGGGAAAGGGGGGAAAGTT  
 CTCGACCAGCGATGAACCACATTTGTGCAATATTAATGGGACATCTCACAGCTTGGATT  
 TTTTATTCTGGCTGGAAAATTGTAC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_183415 unedited  
 GTACTATGGACCGCGCGCCGCTTCTANGATCGANATTTTTTTTTTTTTTTTTTAAATAG  
 CTGAATTACAAATTTAATAAAGCCTTTGATCACATCTCAATCCATAAGTTAGCTACAAA  
 ACAAAAAATCCTACAACTTTTAGAGCCATCAAGAGCCATCAAGGTGTCAGTGAACACCA  
 GTTACAAAAGGAGATTCAAGTGTTCAGATAGTGAATATTTCCAGCTGCTGAAAAGAATT  
 TAAATGAAATTACAACTACCCCTCCTTGCAAAAATCCACATGAAGTTGATATTGGTGC  
 TTATAATCACTCTCTCCAGTCCCTCACTGGTCCAACCTTCAGGTGATAAAAATTAGG  
 ATGGGATCCATCTTCCCTGTGCTGACAGTCTGGGGTCCCGCATGTATGCACGAACCCGC  
 CCAGCGTGCACACACGTTTCAAGAAATCTTCAAAGGAACCGAGCGTTTGGAGAAAGT  
 GGCAAGTCCACAGAATCAGAGGTTACGAACACACCTTCAATAATTAATACATTCCTGT  
 CTTTAAATTCCTTGCCATGTTCCATCAAAGTAGAGCACACACTTTTCCAGAAGCCTG  
 GGGGCTCGACCTGGGTGGGACACCAGGATGCAGCTGAAACTCTGAAGACTGTGGAGACG  
 GGTGGCCCTGCTTTGCTGCCACTGTGACAGCTTGTGGAAAATGTTTTGCGTCTTTG  
 AGGAGAGCAGAGGAGGGACTGGGCTTCCCTGGCTTCAATCCGGCATCAACCTTGGTGGT  
 GCAGGTGCAGGAGCATGAGGTGGAGAGAGGNGNTTNCCTNNCAAACCNACCACAAACGC  
 GGCTCCGCTCACCCCTGGAGCTAAGTTCTTACCACCAAGCCAGCAGAGGTTATCAGA  
 CCCATTGGTTGGAACACATGCACCTTACAAAACCAACCCACG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_183415

**Insert Size:**

6050 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_183415.1](#), [NP\\_904324.1](#)

**RefSeq Size:** 5404 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]

Transcript Variant: This variant (3) uses an alternate splice site in the 5' UTR, as compared to variant 1. Variants 1 and 3 encode the same protein (isoform 1).