

## Product datasheet for **SC111700**

### UBE2D2 (NM\_003339) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UBE2D2 (NM_003339) Human Untagged Clone
Tag:	Tag Free
Symbol:	UBE2D2
Synonyms:	E2(17)KB2; PUBC1; UBC4; UBC4/5; UBCH4; UBCH5B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111700 sequence for NM_003339 edited (data generated by NextGen Sequencing)

```
ATGGCTCTGAAGAGAATCCACAAGGAATTGAATGATCTGGCACGGGACCCTCCAGCACAG
TGTT CAGCAGGTCTGTTGGAGATGATATGTTCCATTGGCAAGCTACAATAATGGGGCCA
AATGACAGTCCCTATCAGGGTGGAGTATTTTTCTTGACAATTCATTTCCCAACAGATTAC
CCCTTCAAACCACCTAAGGTTGCATTTACAACAAGAATTTATCATCCAAATATTAACAGT
AATGGCAGCATTGTCTTGATATTCTACGATCACAGTGGTCTCCAGCACTAACTATTTCA
AAAGTACTCTTGCCATCTGTTCTCTGTTGTGTGATCCCAATCCAGATGATCCTTTAGTG
CCTGAGATTGCTCGGATCTACAAAACAGATAGAGAAAAGTACAACAGAATAGCTCGGGAA
TGGACTCAGAAGTATGCGATGTAA
```

Clone variation with respect to NM\_003339.2



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_003339 unedited  
 TGTATACGACTCACTATAGGGCGGCNCGCGATTTCGGCACGAGGCTGGGAGGAAGAGGCAG  
 CTACGGCGGGCGGGCGGGTGGCGGCTAGGGCGGGCGGAATAAAGGGGCCCGCCGGGT  
 GATGCGGTGACCGCTGCGGCAGGCCAGGAGCTGAGTGGGCCCGGCCCTCAGCCCGTCC  
 CGCCGGACCCGCTTTCCTCAACTCTCCATCTTCTCCTGCCGACCGAGATCGCCGAGGCGG  
 CCTCAGGCTCCCTAGCCCTTCCCGTCCCTTCCCGCCCCCGTCCCCGCCCGGGGGCC  
 GCCCCACCCGCCTCCACCATTGGCTCTGAAGAGAATCCACAAGGAATTGAATGATCTGG  
 CACGGGACCCCTCCAGCACAGTGTTCAGCAGGTCCTGTTGGAGATGATATGTTCCATTGGC  
 AAGCTACAATAATGGGGCCAAATGACAGTCCCTATCAGGGTGGAGTATTTTTCTTGACAA  
 TTCATTTCCCAACAGATTACCCCTTCAAACCACCTAAGGTTGCATTTACAACAAGAATTT  
 ATCATCCAATATTAACAGTAATGGCAGCATTGTCTTGATATTCTACGATCACAGTGGT  
 CTCCAGCACTAATTTCAAAGTACTCTTGCCATCTGTTCTGTTGGTGTGATCCC  
 AATCCAGATGATCCTTTAGTGCCTGAGATTGCTCGGATCTACAAAACAGATAGAGAAAAG  
 TACAACAGAATAGCTCGGGGATGGACTCANAAGTATGCGATGTAATTAAGAAAATTATTG  
 GATAACCTCTACAATAAGATAGGGGGACTCTGANAGAGAAAAGTCTTTTGATTTCAATTT  
 GACTGCTTCTATGAGCCACGCCTCATCTTNCCTGTGCACATGTACTGATACAGAGGG  
 GNTGGCGTGGTGGACTA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_003339 unedited  
 ACTTCCAGGGCCGAAAGGCACTGGGGAGGGGTACAGGGATGCCACCCGGGATCTGTTCC  
 AGGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTATAT  
 GTAATGACTGTAGTAACCACTTTATTACACAGATTAATCATTCTTGAAAGTACAAGCTCC  
 AGAGGAGCAATTGGGTCTTTAAATATACACAAGTATTTCCATCAAATGAATTTTACCCT  
 TACATCCAATAGACCTAAGCGTTAAAAACATAAGAAAATAAGAGCTATTAGCTATGT  
 ATTAACTGAGAAACCACATACAAACCAAAGAATATGGAAGAGAGAAAGAAGGGCTGAAAG  
 GCCAAAGGTTGAAGGGGTAGGGAGATGTAAAAGAAGTTGGGAACAAAGCCCATCACACTT  
 GATGTACTAATAGCTCCAATCCATTTAAATGTTGACCAGTTAAACTTAGACCTTAAATG  
 CAGGATGTGGGTAGAGTTAATCTGGTTGGTCATAACTTTCACCTAAGACGTAGCTCCTT  
 CGGAATAAAATGAATACAGACACAGCTTCATGTTCTTACCTTGCTTTTCATAACTGTTT  
 TGAGTTTAAATGGATTCCACTTAAAAATAATCTCCTATAGGTGAGTGGAGCCTTTTCTTT  
 TCCATCCAAGCACACACCATACCCACCACCCCTTACACCTTGCTGNTATCCAAATTTA  
 AGTCAATAAGAAAAGCTTTTAGTCTCACACCTAGGTAATGCCTGTAGAAGTGGCTTGTC  
 CACACACACTTCTGCTNAGAGGCNAATGTTGTACAAAAGTACAGTATTTCTAGTTTTG  
 TGTTCAAGTATGTACACACGCACTGCTGTATCAGGTAACATGTGCCAGGGGAAGATG  
 ANCGTGGCTCATAAAAGCAGTCAATGAAATCAAAGGACTTNCCTTTTCAAAGTCCCTTNC  
 TTATTTGGAAAAGGTTNCAATAATNTCTTATAACTCGCATCTTCTGAGACC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_003339

**Insert Size:**

1700 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\\_003339.2](#), [NP\\_003330.1](#)

**RefSeq Size:** 2715 bp

**RefSeq ORF:** 444 bp

**Locus ID:** 7322

**UniProt ID:** [P62837](#)

**Cytogenetics:** 5q31.2

**Domains:** UBCc

**Protein Pathways:** Ubiquitin mediated proteolysis

**Gene Summary:** Regulated degradation of misfolded, damaged or short-lived proteins in eukaryotes occurs via the ubiquitin (Ub)-proteasome system (UPS). An integral part of the UPS system is the ubiquitination of target proteins and covalent linkage of Ub-containing proteins to form polymeric chains, marking them as targets for 26S proteasome-mediated degradation. Ubiquitination of proteins is mediated by a cascade of enzymes which includes E1 (ubiquitin activating), E2 (ubiquitin conjugating), and E3 (ubiquitin ligases) enzymes. This gene encodes a member of the E2 enzyme family. Substrates of this enzyme include the tumor suppressor protein p53 and peroxisomal biogenesis factor 5 (PEX5). Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, May 2013]  
Transcript Variant: This variant (1) encodes the longer isoform (1).