

## Product datasheet for **SC127005**

### UBE1C (UBA3) (NM\_198197) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UBE1C (UBA3) (NM_198197) Human Untagged Clone
Tag:	Tag Free
Symbol:	UBE1C
Synonyms:	UBA3, hUba3, MGC22384, DKFZp566j164
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127005 sequence for NM_198197 edited (data generated by NextGen Sequencing)

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ATGGACACTATAGATGTTTCCAATCTAAATAGGCAGTTTTTATTTAGGCCTAAAGATATT
GGAAGACCTAAGGCTGAAGTTGCTGCAGATTTCTAAATGACAGAGTTCCCTAATTGCAAT
GTAGTTCCACATTTCAACAAGATTCAAGATTTTAAACGACACTTTCTATCGACAATTTTCAT
ATTATTGTATGTGGACTGGACTCTATCATCGCCAGAAGATGGATAAATGGCATGCTGATA
TCTCTTCTAAATTATGAAGATGGTGTCTTAGATCCAAGCTCCATTGTCCCTTTGATAGAT
GGGGGGACAGAAGGTTTTAAAGGAAATGCCCGGGTGATTCTGCCTGGAATGACTGCTTGT
ATCGAATGCACGCTGGAACCTTTATCCACCACAGGTTAATTTCCCATGTGCACCATTGCA
TCTATGCCCAGGCTACCAGAACACTGTATTGAGTATGTAAGGATGTTGCAGTGGCCTAAG
GAGCAGCCTTTTGGAGAAGGGTTCCATTAGATGGAGATGATCCTGAACATATACAATGG
ATTTTCCAAAAATCCCTAGAGAGAGCATACAATAAATATTAGGGGTGTTACGTATAGG
CTCACTCAAGGGGTAGTAAAAAGAATCATTCTCAGTAGCTTCCACAAATGCAGTCATT
GCAGCTGTGTGTGCCACTGAGGTTTTTAAAAATAGCCACAAGTGCATACATTCCCTTGAAT
AATTACTTGGTGTTAATGATGTAGATGGGCTGTATACATACACATTTGAAGCAGAAAGA
AAGGAAAATGCCAGCTTGTAGCCAGCTTCTCAAAATATTCAGTTTTCTCCATCAGCT
AAACTACAGGAGGTTTTGGATTATCTAACCAATAGTGCTTCTCTGCAAAATGAAATCTCCA
GCCATCACAGCCACCCTAGAGGGAAAAAATAGAACAATTTACTTACAGTCGGTAACCTCT
ATTGAAGAACGAACAAGGCCAAATCTCTCAAAACATTGAAAGAATTGGGGCTTGTGAT
GGACAAGAATGCGGGTGTCTGATGTACCACCCACAGACTGTACTATTCAAACCTCAT
TTTACTTCTTAA

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Clone variation with respect to NM\_198197.1



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_198197 unedited  
 TATTTTCCCGCCCGTTGCCGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAG  
 CAGAGCTCATTTAGGTGACACTATAGAATAACAAGCTACTTGTCTTTTTGCAGCGGCCGC  
 GAATTCGGCACGAGGGGATGGCGAGGAGCCGGTAGAAGAAAAGAAGGAGAATAGAGGAGC  
 TGCTGGCTGAGAAAATGGCTGTTGATGGTGGGTGTGGGGACACTGGAGACTGGGAAGGTC  
 GCTGGAACCATGTAAAGAAGTTCCTCGAGCGATCTGGACCCTTCACACACCCTGATTTCCG  
 AACCGAGCACTGAATCTCTCCAGTTCTTGTTAGATACATGTAAAGTTCTAGTCATTGGAG  
 CTGGCGGCTTAGGATGTGAGCTCCTGAAAAATCTGGCCTTGTCTGGTTTTAGACAGATTC  
 ATGTTATAGATATGGACTATAGATGTTTCCAATCTAAATAGGCAGTTTTTATTAGGC  
 CTAAGATATTGGAAGACCTAAGGCTGAAGTTGCTGCAGAATTTCTAAATGACAGAGTTC  
 CTAATTGCAATGTAGTTCACATTTCAACAAGATTCAAGATTTTAAACGACTTTCTATC  
 GACAATTTCATATTATTGTATGTGGACTGGACTCTATCATCGCCAGAAGATGGATAAATG  
 GCATGCTGATATCTTTCTAAATATGAAGAGGTGCTTAGATCCAGCTCCATGTCCTTT  
 GATAGATGGGGACAGAAGNNTTAAAGGAATGCCCGNTGATTCTGCCTGGAAGACTGC  
 CTGTATACAATGCACCCTGAAACTTATCCCACAGGTTAATTTTCCATGTGCCATTGCA  
 CTTATGCCAGCTACCCAAAACCTNATTGAGTATGTAAGATGTTGCAGGGCCCTAAGGAC  
 CGCCTTTGAGAAGGGTTTCAATAAAGGAAC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_198197 unedited  
 CCCCCAATAGTTGTCCGCGCCATTCTANGATCNGTTTTTTTTTTTTTTTTTTTACACA  
 ATATATGATTTTATTAATAAATAGTGCAAAAGCATCAGTGATAACTGTTTGAACATTA  
 TTTTTAAACAGCCATGCTTGGCATTAGTTAATATTGTGCATATTGGCCTCTATGGCAC  
 TACAAGTAAACAGATGAAAATATTGCCATTTTCATGCTCAGTTATTCAGCTATAACACC  
 ATTTACAATCATTATGAACAAGATAAATCTGCAATAATATTCAATTTGGATGGCCACAA  
 TTAATGAGTGTTATATCAAGAAATAGCCTATGTTCAATATACTCCAGATGTCAGATTGT  
 AAAATGTAATGTTATTTAAAACCTAATTCTTTATTTTCCTTAAAGGGACACCTTTTGTGT  
 ATTTGGGTACTCAATGAAAACCTTAGGAATGCATTCTTTGACCATAATAACAAAATTCAC  
 ACAAAGAGGTTGTATGCTTCTCCTCTAAAAGAAGCAATACATTTGCTCATAATCTCTC  
 TCTCCAGTATCATTTCTCATATTATTAATGAAAATGCTTACAAGCACCACCAAAAAT  
 TCTGTCTTCAAGGAAGGTTACAAGTTAAAAAGAGTGGGTATTATATAAAAAAGAC  
 AAATCGTGGCAACTATTGCTAAAAATGACATCTGATTTAACTTCTTAGCATCCACAAA  
 GTATATTTTCCATGAGTTTTTCTATTATGTGGGAGATTTTCCCTTAAAGAAATAAAT  
 GAAGTTTGCATAGTACAGTCTGTGGGTGAGGACATCAGCAACCGCAGTTTCTGTCCACA  
 ACAACCCCAATTTTTAATGTTTTGGAGATTGCGCCCTGTTCCGCTTTCAT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_198197

**Insert Size:**

2300 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\\_198197.1](#), [NP\\_937840.1](#)

**RefSeq Size:** 2015 bp

**RefSeq ORF:** 1092 bp

**Locus ID:** 9039

**Cytogenetics:** 3p14.1

**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: ubiquitin-activating enzymes, or E1s, ubiquitin-conjugating enzymes, or E2s, and ubiquitin-protein ligases, or E3s. This gene encodes a member of the E1 ubiquitin-activating enzyme family. The encoded enzyme associates with AppBp1, an amyloid beta precursor protein binding protein, to form a heterodimer, and then the enzyme complex activates NEDD8, a ubiquitin-like protein, which regulates cell division, signaling and embryogenesis. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (3) lacks an exon in the 5' region and uses a downstream start codon, as compared to variant 1. The encoded isoform (3) has a shorter N-terminus, as compared to isoform 1.