

Product datasheet for **SC107764**

UBE1C (UBA3) (NM_198195) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBE1C (UBA3) (NM_198195) Human Untagged Clone
Tag:	Tag Free
Symbol:	UBE1C
Synonyms:	hUBA3; NAE2; UBE1C
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107764 sequence for NM_198195 edited (data generated by NextGen Sequencing)

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ATGGCGGATGGCGAGGAGCCAATGGCTGTTGATGGTGGGTGTGGGACACTGGAGACTGG
GAAGGTCGCTGGAACCATGTAAAGAAGTTCCTCGAGCGATCTGGACCCCTCACACACCCT
GATTTGAAACCGAGCACTGAATCTCTCCAGTTCCTGTTAGATACATGTAAAGTCTAGTC
ATTGGAGCTGGCGGCTTAGGATGTGAGCTCCTGAAAAATCTGGCCTTGTCTGGTTTTAGA
CAGATTCATGTTATAGATATGGACACTATAGATGTTTCCAATCTAAATAGGCAGTTTTTA
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AGAGTTCCTAATTGCAATGTAGTCCACATTTCAACAAGATTCAAGATTTAACGACACT
TTCTATCGACAATTTTCAATATTGATGTGGACTGGACTCTATCATCGCCAGAAGATGG
ATAAATGGCATGCTGATATCTCTCTAAATTATGAAGATGGTGTCTTAGATCCAAGCTCC
ATTGTCCCTTTGATAGATGGGGGACAGAAGGTTTTAAAGGAAATGCCCGGGTGATTCTG
CCTGGAATGACTGCTTGTATCGAATGCACGCTGGAACCTTATCCACCACAGGTTAATTTT
CCCATGTGCACCATTTGCATCTATGCCAGGCTACCAGAACACTGTATTGAGTATGTAAGG
ATGTTGCAGTGGCCTAAGGAGCAGCCTTTTGGAGAAGGGGTTCCATTAGATGGAGATGAT
CCTGAACATATACAATGGATTTTCCAAAAATCCCTAGAGAGAGCATCACAAATAAATATT
AGGGGTGTTACGTATAGGCTCACTCAAGGGGTAGTAAAAAGAATCATTCTGCAGTAGCT
TCCACAAATGCAGTCATTGCAGCTGTGTGCCACTGAGGTTTTTAAAAATAGCCACAAGT
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ACATTTGAAGCAGAAAGAAAGGAAAACCTGCCAGCTTGTAGCCAGCTTCTCAAAATATT
CAGTTTTCTCCATCAGCTAAACTACAGGAGGTTTTGGATTATCTAACCAATAGTGCTTCT
CTGCAAAATGAAATCTCCAGCCATCACAGCCACCCTAGAGGGAAAAAATAGAACACTTTAC
TTACAGTCGGTAACCTCTATTGAAGAACGAACAAGGCCAAATCTCCTCAAAAACATTGAAA
GAATTGGGGCTTGTGATGGACAAGAAGTGGCGGTTGCTGATGTCACCACCCACAGACT
GTACTATTCAAACCTTCATTTTACTTCTTAA

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Clone variation with respect to NM_198195.1



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_198195 unedited NGGGTTCCGAATTTGTNATACGACTCCTCTNAGGCGGCCGCGNAATTCGCACGAGGACAA TATGGCGGATGGCGAGGAGCCATGGCTGTTGATGGTGGGTGTGGGGACTGGAGACTGG GAAGGTCGCTGGAACCATGTAAAGAAGTTCCTCGAGCGATCTGGACCCTTCACACACCCT GATTTCGAACCGAGCACTGAATCTCTCCAGTCTTGTAGATACATGTAAAGTCTAGTC ATTGGAGCTGGCGGCTTAGGATGTGAGCTCCTGAAAACTGGCCTTGTCTGGTTTTAGA CAGATTCATGTTATAGATATGGACACTATAGATGTTTCCAATCTAAATAGGCAGTTTTTA TTTAGGCCTAAAGATATTGGAAGACCTAAGGCTGAAGTTGCTGCAGAATTTCTAAATGAC AGAGTTCCTAATTGCAATGTAGTTCACATTTCAACAAGATTCAAGATTTTAACGACACT TTCTATCGACAATTTTATATTATTGTATGTGGACTGGACTCTATCATCGCCAGAAGATGG ATAAATGGCATGCTGATATCTCTTCTAAATTATGAAGATGGTGTCTTAGATCCAAGCTCC ATTGTCCCTTTGATAGATGGGGGACAGAAGGTTTTAAAGGAAATGCCCGGTGATTCTG CCTGGAATGACTGCTTGTATCGAATGCACGCTGGAACCTTATCCACCACAGGTTAATTTT CCCATGTGCACCATTGCATCTATGCCAGGCTACCAGAACACTGTATTGAGTATGTAAGG ATGTTGCAGTGGCCTAAGAGCAGCCTTTTGAAAGGNGTTNCATTAGATGGAGAGATCCT GAACATTACATGGGATTTCCAAAAATCCCTAGANAAGCATN</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_198195 unedited GCACGCAATCTAGAATCGAGTTTTTTTTTTTTTTTTTTTACACAATATATGATTTTATTAA TAAATAGTGCAAAAGCATCAGTGATAACTGTTGAACATTAATTTTTTAAACAGCCATG TCTTGGCATTAGTTAATATTGTGCATATTGGCCTCTATGGCACTACAAGTAAACAGATGA AAATATTGCCATTTTCATGCACAGGTATTCAGCTATAACACCATTTACAAATCATTATG AACAAGATAAATTCTGCAATAATATTCATTTGGATGGCCACAATTAATGAGTGTATAT CAAGAAATAGCCTATGTTCAATATACTCCAGATGTCAGATTGTAAAATGTAATGTTATTT AAAACTTAATTTCTTTATTTTCTTAAAGGGACACCTTTTGTGATTTGGTACTCAAATG AAAACTTAAGAATGCATTTGACCATAATAACAAAATTCACACAAAAGAGGTTGTATG CTTCTCTCTAAAGAAGCAATACATTTGCTCATAATCTCTCTCCAGGTATCATTTT TCATATTATTAATGAAAATGCTTACAAGCACAACACCAAAAATCTGTCTTCAAGGGAAG GTTACAAAAGTTAAAAAGAGTGGTTCATTATATAAAAAAGACAAATCGTGGCAACACTA TTGCTAAAAATGACATCGATTCAACTTCTTAGCATCCACAAAGTATATTATTTCCATGTG TTCTCTATTATGTGGAGATCCTCCTTAAGAGTAAAATGAAGTTTGTATGACAGTCTGTG GAGTGGTGACATCAGCAACCGCCAGTTCCTTGCCATCAACAAGCCCAATTNCTTCAATG TTTTGGAGAGAATTAGCCCTTGNTCGTTCTTCAATAGAAGGTACCGACTGNTAGTAAAAG TGTCTATNTTTCCCTCTAGGNAGGCTGTGATGGCTGGAGATTNCATTGCAGAAAGCACT ATTGGNTAGATATCCAAACCTNCCGTAGTTAAN</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_198195
Insert Size:	2010 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_198195.1](#), [NP_937838.1](#)

RefSeq Size: 2094 bp

RefSeq ORF: 1350 bp

Locus ID: 9039

UniProt ID: [Q8TBC4](#)

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 (2) lacks an in-frame exon in the 5' coding region, as compared to variant 1. The encoded isoform (2) is thus missing an internal segment in the N-terminal region, as compared to isoform 1.