

## Product datasheet for **SC120518**

### UBE3A (NM\_130839) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UBE3A (NM_130839) Human Untagged Clone
Tag:	Tag Free
Symbol:	UBE3A
Synonyms:	ANCR; AS; E6-AP; EPVE6AP; HPVE6A
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC120518 sequence for NM\_130839 edited (data generated by NextGen Sequencing)

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ATGGCCACAGCTTGTAAAAGATCAGGAGAACCTCAGTCTGACGACATTGAAGCTAGCCGA
ATGAAGCGAGCAGCTGCAAAGCATCTAATAGAACGCTACTACCACCAGTTAACTGAGGGC
TGTGGAATGAAGCCTGCACGAATGAGTTTTGTGCTTCTGTCCAACCTTTCTTCGTATG
GATAAATGCAGCAGCTATTAAGCCCTCGAGCTTTATAAGATTAATGCAAAACTCTGT
GATCCTCATCCCTCCAAGAAAGGAGCAAGCTCAGCTTACCTTGAGAACTCGAAAGGTGCC
CCCAACAACCTCCTGCTGAGATAAAAATGAACAAGAAAGGCGCTAGAATTGATTTTAAA
GATGTGACTTACTTAACAGAAGAGAAGGTATATGAAATCTTGAATTATGTAGAGAAAGA
GAGGATTATCCCTTTAATCCGTGTTATTGGAAGAGTTTTTCTAGTGCTGAGGCATTG
GTACAGAGCTTCCGAAAAGTTAAACAACACACCAAGGAAGAAGTAAATCTCTTCAAGCA
AAAGATGAAGACAAGATGAAGATGAAAAGGAAAAANNTGCATGTTCTGCTGCTGCTATG
GAAGAAGACTCAGAAGCATCTTCTCAAGGATAGGTGATAGCTCACAGGGAGACAACAAT
TTGCAAAAATTAGGCCCTGATGATGTGCTGTGGATATTGATGCCATTAGAAGGGTCTAC
ACCAGATTGCTCTAATGAAAAATTGAAACTGCCTTTCTCAATGCACTTGTATATTTG
TCACCTAACGTGGAATGTGACTTGACGTATCACAATGTATACTCTCGAGATCCTAATTAT
CTGAATTTGTTTATTATCGTAATGGAGAATAGAAATCTCCACAGTCTGAATATCTGGAA
ATGGCTTTGCCATTATTTGCAAAGCGATGAGCAAGCTACCCCTTGACGCCCAAGGAAAA
CTGATCAGACTGTGGTCTAAATACAATGCAGACCAGATTCGGAGAATGATGGAGACATTT
CAGCAACTTATTACTTATAAAGTCATAAGCAATGAATTTAACAGTCGAAATCTAGTGAAT
GATGATGATGCCATTGTTGCTGCTTCAAGTGTGTTGAAAATGGTTACTATGCAAAATGTA
GTGGGAGGGGAAGTGGACACAAATCACAATGAAGAAGATGATGAAGAGCCCATCCCTGAG
TCCAGCGAGCTGACACTTCAGGAACCTTTTGGGAGAAGAAAGAAGAAACAAGAAAGTCC
CGAGTGGACCCCTGGAACCTGAACTTGGTGTAAAACCTGGATTGTGCAAAACCACTT
ATCCCTTTTGAAGAGTTTATTAATGAACCACTGAATGAGGTTCTAGAAATGGATAAAGAT
TATACTTTTTTCAAAGTAGAAACAGAGAACAAATCTCTTTTATGACATGTCCCTTTATA
TTGAATGCTGTCACAAAGAATTTGGGATTATATTATGACAATAGAATTCGCATGTACAGT
GAACGAAGAATCACTGTTCTCTACAGCTTAGTTCAAGGACAGCAGTTGAATCCATATTTG
AGACTCAAAGTTAGACGTGACCATATCATAGATGATGCACTTGTCCGGCTAGAGATGATC
GCTATGGAAAATCCTGCAGACTTGAAGAAGCAGTTGTATGTGGAATTTGAAGGAGAACAA
GGAGTTGATGAGGGAGGTGTTTCCAAGAATTTTTTTCAGCTGGTTGTGGAGGAAATCTTC
AATCCAGATATTGGTATGTTACATACGATGAATCTACAAAATGTTTTGGTTTAAATCCA
TCTTCTTTTGAACCTGAGGGTCACTTTACTCTGATTGGCATACTACTGGGCTGGCTATT
TACAATACTGTATACTGGATGTACATTTTCCCATGGTTGTCTACAGGAAGCTAATGGGG
AAAAAAGGAACCTTTCTGACTTGGGAGACTCTCACCCAGTTCTATATCAGAGTTTAAAA
GATTTATTGGAGTATGAAGGGAATGTGGAAGATGACATGATGACTTTCCAGATATCA
CAGACAGATCTTTTTGGTAACCAATGATGTATGATCTAAAGGAAAATGGTGATAAAAT
AAATCAGTAGAAAAACAGTTCAAGGCTTTTTCGGAGAGGTTTTTATATGGTGACCAATGAA
TCTCCCTTAAAGTACTTATTCAGACCAGAAGAAATGAATGCTTATATGTGGAAGCCGG
AATCTAGATTTCCAAGCACTAGAAGAACTACAGAATATGACGGTGGCTATACCAGGGAC
TCTGTTCTGATTAGGGAGTTCTGGGAAATCGTTTATTCTTTACAGATGAACAGAAAAGA
CTCTTCTGCACTTTACAACGGGCACAGACAGAGCACCTGTGGGAGGACTAGGAAAATTA
AAGATGATTATAGCCAAAATGGCCAGACACAGAAAGGTTACCTACATCTCATACTTGC
TTTAAATGTCTTTTACTTCCGGAATACTCAAGCAAGAAAAAATTAAGAGAGATTGTTG
AAGGCCATCACGTATGCCAAAGGATTTGGCATGCTGTAA

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Clone variation with respect to NM\_130839.2  
577 g=>n;578 c=>n

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_130839 unedited  
 CCGTCACAATTGTAACCGACTCATATAGGCGGCCGCCCAATCCCAGCTCCTCAGAGTTTG  
 GCGACATATGAGTTATTAAGCCTACGCTCAGATCAAGGTAGCAGCTAGACTGGTGTGACA  
 ACCTGTTTTTAATCAGTGACTCAAAGCTGTGATCACCCCTGATGTCACCGAATGGCCACAG  
 CTTGTAAGATCAGGAGAACCTCAGTCTGACGACATTGAAGCTAGCCGAATGAAGCGAG  
 CAGCTGCAAAGCATCTAATAGAACGCTACTACCACCAGTAACTGAGGGCTGTGGAAATG  
 AAGCCTGCACGAATGAGTTTTGTGCTTCTGTCCAACTTTTCTTGTATGGATAATAATG  
 CAGCAGCTATTAAGCCCTCGAGCTTTATAAGAGTAATGCAAAACTCTGTGATCCTCATC  
 CCTCCAAGAAAGGAGCAAGCTCAGCTTACCTTGAGAACTCGAAAGGTGCCCCCAACAAC  
 CCTGCTCTGAGATAAAAAATGAACAAGAAAGGCGCTAGAATTGATTTTAAAGATGTGACTT  
 ACTTAACAGAAGAGAAGGTATATGAAATCTTGAATTATGTAGAGAAAGAGAGGATTATT  
 CCCCTTAATCCGTGTTATTGGAAGAGTTTTTCTAGTGTGAGGCATTGGTACAGAGCT  
 TCCGCAAAGTTAAACAACACACCAAGGAAGAACTGAAATCTCTTCAAGCAAAAGATGAAG  
 ACAAGATGAAGATGACCAGGACAAAGCTGCATGTTCTGTGCTGCTATGGAAAGAGACT  
 CAGAAGCATCTTCTCAGGATAGGTGATAGCTCACAGGGAGACAGCAATTTGCAAAATTA  
 GGCCTTGATGATGTGTCTGTGGAATATTGATGCCATTCAAAGGGTCTTCCCCCAGATTG  
 CTCTCCTAAGCAACAAAATGAACTGTCTTTT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_130839 unedited  
 CGGCACGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTCTTCCTTTTTTTTTGTTTTA  
 TTTTGTGTTTTGTTTTGTTTTACAGCATGCCAAATCCTTTGGCATACGTGATGGCCTCAAC  
 AATCTCTCTTTAAGTTTTTCTTTGCTTGAGTATTCCGGAAGTAAAAGCACATTAAGCAA  
 GTATGAGATGTAGTAACCTTTCTGTGTCTGGGCCATTTTTGGCTATAATCATCTTTAAT  
 TTTCTAGTCCTCCACAGGTGCTCTGTCTGTGCCGTTGTAAACTGCAAGAAGAGTCTT  
 TTCTGTTTCATCTGTAATGAATGAACGATTTCCAGAACTCCCTAATCAGAACAGAGTCC  
 CTGGTATAGCCACCGTCATATTCTGTAGTTTTCTTAGTGCTTGGAAATCTAGATTCCGG  
 CTTCCACATATAAGCAATTCAATTTCTTCTGGTCTGAATAAGTACTTTAAGGGAGATTCA  
 TTGGTCACCATATGAAAACCTCTCCGAAAAGCCTTGAAGTGTGTTTTCTACTGATTTATTG  
 AGAATGTAGTCAGATAAAGATTGACAAATTCCTTCTGTTTTTCATTTGTAATTGGAATT  
 TTATCACCATTTTCCTTTAGATCATACATCATTGGGTTACCAAAAAGATCTGTCTGTGAT  
 ATCTGGAAAGTGATCATCATGTCTTCCACATTCCTTCATACTCCAATAAATCTTTT  
 AAATCTGATATAGAAGTGGGTGAGAGTCTCCAGTCACGAAAAGTTCCTTTTTCCCAT  
 TAGCTNNTGTAGACACCATGGGAAAATGTCATCCAGATACAGTTATTGTAATAGCAGA  
 CCAGTACTATGCCATCAGAGTAACTGACCCTCAGTTNCAAAGAGATGGATAANCCANNAC  
 ATTTGTAGATCATCGTTGTGAACCTACCATATCTGGNATGAGATTCCTCCACCGTGAAA  
 AATCTTGGAAACTCC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_130839

**Insert Size:**

2800 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_130839.1](#), [NP\\_570854.1](#)

**RefSeq Size:** 5164 bp

**RefSeq ORF:** 2619 bp

**Locus ID:** 7337

**UniProt ID:** [Q05086](#)

**Cytogenetics:** 15q11.2

**Domains:** HECT

**Protein Families:** Druggable Genome

**Protein Pathways:** Ubiquitin mediated proteolysis

**Gene Summary:**

This gene encodes an E3 ubiquitin-protein ligase, part of the ubiquitin protein degradation system. This imprinted gene is maternally expressed in brain and biallelically expressed in other tissues. Maternally inherited deletion of this gene causes Angelman Syndrome, characterized by severe motor and intellectual retardation, ataxia, hypotonia, epilepsy, absence of speech, and characteristic facies. The protein also interacts with the E6 protein of human papillomavirus types 16 and 18, resulting in ubiquitination and proteolysis of tumor protein p53. Alternative splicing of this gene results in three transcript variants encoding three isoforms with different N-termini. Additional transcript variants have been described, but their full length nature has not been determined. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (3) differs in the 5' UTR, and uses an alternate start codon compared to variant 2. The encoded isoform (3) has a distinct N-terminus and is 3 and is shorter than isoform 2. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.