

Product datasheet for **SC309057**

UBE3A (NM_000462) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBE3A (NM_000462) Human Untagged Clone
Tag:	Tag Free
Symbol:	UBE3A
Synonyms:	ANCR; AS; E6-AP; EPVE6AP; HPVE6A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_000462 edited
 ACCAGCTCCTCAGAAGTTTGGCGAAATATGAGTTATTAAGCCTACGCTCAGATCAAGGTA
 GCAGCTAGACTGGTGTGACAACCTGTTTTAATCAGTGACTCAAAGCTGTGATCACCCCTG
 ATGTCACCGAATGGCCACAGCTTGTAAGAGAGGTTACAGTGGAGGTAAGGAGTGGCT
 TGCAGGATGGAGAAGCTGCACCAGTGTTATTGAAATCAGGAGAACCCTCAGTCTGACGAC
 ATTGAAGCTAGCCGAATGAAGCGAGCAGCTGCAAAGCATCTAATAGAACGCTACTACCAC
 CAGTTAACTGAGGGCTGTGGAAATGAAGCCTGCACGAATGAGTTTTGTCTTCTCTCCA
 ACTTTTCTTCGTATGGATAATAATGCAGCAGCTATTAAGCCCTCGAGCTTTATAAGATT
 AATGCAAAACTCTGTGATCCTCATCCCTCCAAGAAAGGCAAGCTCAGCTTACCTTGAG
 AACTCGAAAGGTGCCCAACAACCTCTGCTCTGAGATAAAAAAGCAAGAAAGGCGCT
 AGAATTGATTTAAAGATGTGACTTACTTAACAGAAGAGAAGGTATATGAAATCTTGAA
 TTATGTAGAGAAAGAGAGGATTATCCCTTTAATCCGTGTTATTGGAAGAGTTTTTCT
 AGTGCTGAGGCATTGGTACAGAGCTTCCGAAAGTTAAACAACACACCAAGGAAGAACTG
 AAATCTCTTCAAGCAAAAGATGAAGACAAAGATGAAGATGAAAAGGAAAAAGCTGCATGT
 TCTGCTGCTGCTATGGAAGAAGACTCAGAAGCATCTTCTCAAGGATAGGTGATAGCTCA
 CAGGGAGACAACAATTTGCAAAAATTAGGCCCTGATGATGTGTCTGTGGATATTGATGCC
 ATTAGAAGGGTCTACACCAGATTGCTCTCTAATGAAAAATTGAAACTGCCTTTCTCAAT
 GCATTGTATATTTGTCACCTAACGTGGAATGTGACTTGACGTATCACAATGTATACTCT
 CGAGATCCTAATTATCTGAATTTGTTTATTATCGTAATGGAGAATAGAAATCTCCACAGT
 CCTGAATATCTGGAAATGGCTTTGCCATTATTTGCAAAGCGATGAGCAAGCTACCCCTT
 GCAGCCCAAGGAAAAGTATCAGACTGTGGTCTAATAACAATGCAGACCAGATTCGGAGA
 ATGATGGAGACATTTTCACTTATTACTTATAAAGTCATAAGCAATGAATTTAACAGT
 CGAAATCTAGTGAATGATGATGATGCCATTGTTGCTGCTTCAAGTGTGAAAATGGTT
 TACTATGCAAAATGTAGTGGGAGGGAAGTGGACACAAATCACAATGAAGAAGATGATGAA
 GAGCCATCCCTGAGTCCAGCGAGCTGACACTTCAAGAACTTTTGGGAGAAGAAAGAAGA
 AACAAGAAAGGTCTCGAGTGGACCCCTGAAAAGTGAACCTGGTGTAAAACCTGGAT
 TGTGAAAACCACTTATCCCTTTTGAAGAGTTTATTAATGAACCACTGAATGAGGTTCTA
 GAAATGGATAAAGATTACTTTTTCAAAGTAGAAACAGAGAACAATTTCTTTTTATG
 ACATGTCCTTTATATTGAATGCTGTACAAAAGAAATTTGGGATTATATTGACAATAGA
 ATTCGCATGTACAGTGAACGAAGAATCACTGTTCTCTACAGCTTAGTTCAAGGACAGCAG
 TTGAATCCATATTTGAGACTCAAAGTTAGACGTGACCATATCATAGATGATGCATTGTC
 CGGCTAGAGATGATCGCTATGGAATACTGACAGCTTGAAGAAGCAGTTGTATGTGAA
 TTTGAAGGAGAACAAGGAGTTGATGAGGGAGGTGTTTCCAAAGAAATTTTTCAGCTGGTT
 GTGGAGGAAATCTTCAATCCAGATATTGGTATGTTACATACGATGAATCTACAAAATG
 TTTTGGTTAATCCATCTTCTTTGAAACTGAGGGTCAGTTTACTCTGATTGGCATAGTA
 CTGGGTCTGGCTATTTACAATACTGTATACTGGATGTACATTTTCCCATGGTTGTCTAC
 AGGAAGCTAATGGGGAAAAAGGAACCTTTTCGTGACTTGGGAGACTCTCACCCAGTTCTA
 TATCAGAGTTTAAAAGATTTATTGGAGTATGAAGGGAATGTGGAAGATGACATGATGATC
 ACTTTCCAGATATCACAGACAGATCTTTTTGGTAACCAATGATGTATGATCTAAAAGGAA
 AATGGTGATAAAAATCCAAATACAAATGAAAACAGGAAGGAATTTGTCAATCTTTATTCT
 GACTACATTCTCAATAAATCAGTAGAAAAACAGTTCAAGGCTTTTTCGGAGAGTTTTTCT
 ATGGTGACCAATGAATCTCCCTTAAAGTACTTATTAGACCAGAAGAAATGAATTGCTT
 ATATGTGGAAGCCGGAATCTAGATTTCCAAGCACTAGAAGAAACTACAGAATATGACGGT
 GGCTATACCAGGGACTCTGTTCTGATTAGGGAGTTCTGGGAAATCGTTTATTATTACA
 GATGAACAGAAAAGACTCTTCTGAGTTTACAACGGGCACAGACAGACACCTGTGGGA
 GGACTAGGAAAATTAAGATGATTATAGCCAAAATGGCCAGACACAGAAGGTTACCT
 ACATCTCATACTTGCTTTAATGTGCTTTTACTTCCGGAATACTCAAGCAAGAAAAACTT
 AAAGAGAGATTGTTGAAGGCCATCACGTATGCCAAAGGATTTGGCATGCTGTAACAA
 AAAAAACAAAATAAAACAAAAAAGGAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000462 unedited
 GTCCAGTGCATATTTGTATACGACTCATATAGGCGGCCGTAATTCGCACGAGGCTGAT
 TTTAGAATTCACCAGCTCCTCAGAAATTTGGCGAAATATGAGTTATTAAGCCTACGCTCAG
 ATCAAGGTAGCAGCTAGACTGGTGTGACAACTGTTTTAATCAGTGACTCAAAGCTGTG
 ATCACCCTGATGTCACCGAATGGCCACAGCTTGTAAGAGAGATTACAGTGGAGGTA
 GGAGTGGCTTGCAGGATGGAGAAGCTGCACCAGTGTATTGGAAATCAGGAGAACCTCAG
 TCTGACGACATTGAAGCTAGCCGAATGAAGCGAGCAGCTGCAAAGCATCTAATAGAACGC
 TACTACCACAGTTAACTGAGGGCTGTGAAATGAAGCCTGCACGAATGAGTTTTGTGCT
 TCCTGTCCAACTTTTCTCGTATGGATAAATGCAGCAGCTATTAAGCCCTCGAGCTT
 TATAAGATTAATGCAAACTCTGTGATCCTCATCCCTCCAAGAAAGGAGCAAGCTCAGCT
 TACCTTGAGAACTCGAAAGGTGCCCAACAACCTCTGCTCTGAGATAAAATGAACAAG
 ACAGGCGCTAGAATTGATTTAAAGATGTGACTTACTTAACAGAAGAGAAGGTATATGAA
 ATCTTGAATTATGTAGAGAAAGAGAGGATTATCCCCTTAATCCGTGTATTGGAAGA
 GTTTTTCTAGTCTGAGGCATTGGTACAGAGCTCCGNGAAGTTAAACAACACACCAAG
 GGAAGAACTGANNATCTCTTCAGCCANAGATGAAGACCAAGATGAAGATGAANAGGANAA
 AGCTGCNTGTTCTGCTGCTGCTATGGAAAGAGACTCANAAGCATCTTCTCA

3' Read Nucleotide Sequence:

>Reverse primer walk for NM_000462 unedited
 CCTGGNCCAATATGGCTGAAACCCGCTCTACCAAAAAACAAAATTAGCTGAGCCTGG
 TCATGCATGCCTGNGAATCCCAACAACCTCGGGAGGCTGAGGCAGGAGAATCGCTGAACC
 CAGGAGGCGGAGATTGCAGTGAAGCAAGATTGTGCCACTGCACTCCAGCTTGGTTCCCAA
 TAGACCCCGCAGGCCCTACAGTTGTCTTCCCAACTTGCCCTTGCTCCATACCACCCCC
 CTCACCCCATAAATATTATAGAAGGACACCTAGTCAGACAAAATGATGCAACTTAATTTT
 ATTAGGACAAGGCTGGTGGGCACTGGAGTGGCAACTTCCAGGGCCAGGAGAGGCACTGGG
 GAGGGGTCACAGGGATGCCACCCGGGATCTGTTCAAGAAACAGCTATGACCGCGGCCGCA
 ATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGTTATTTTGGTTTGGTTTGTACAG
 CATGCCAAATCCTTTGGCATACTGATGGCCTTCAACAATCTCTTTAAATTTTTCTTT
 GCTTGAGTCTCCCGAAGTAAAAGCCATTAAAGCAAGTATGAGATGTAAGTAACCTTT
 CTGTGTCTGGGCCATTTTGGGTATAATCATCTTTAAATTTCCAGACCTCCCAAGGTGC
 TCTGGCTGTGCCGTTGTAACGAAAAAGAATCCTTTTTGTTTCATCTGTAATAAAGGA
 ACAATTTCCCAAACTCCTTAACCAAAACAAAACCTGGGTTAGCCCCCGCCCAATTCTG
 GAATTTCTTCCCAAGCCTTGAAAATCAAAATCCCG

Restriction Sites:

Please inquire

ACCN:

NM_000462

Insert Size:

2900 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).

OTI Annotation:

The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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:	<ol style="list-style-type: none">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_000462.2 , NP_000453.2
RefSeq Size:	4516 bp
RefSeq ORF:	2628 bp
Locus ID:	7337
UniProt ID:	Q05086
Cytogenetics:	15q11.2
Domains:	HECT
Protein Families:	Druggable Genome
Protein Pathways:	Ubiquitin mediated proteolysis
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) encodes the longest 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.</p>