

Product datasheet for **SC109872**

UBE3A (NM_130838) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBE3A (NM_130838) 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: >NCBI ORF sequence for NM_130838, the custom clone sequence may differ by one or more nucleotides

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ATGAAGCGAGCAGCTGCAAAGCATCTAATAGAACGCTACTACCACGTTAACTGAGGGCTGTGAAATG
AAGCCTGCACGAATGAGTTTTGTGCTTCTGTCCAACCTTTCTTCGTATGGATAATAATGCAGCAGCTAT
TAAAGCCCTCGAGCTTTATAAGATTAATGCAAACTCTGTGATCCCTCATCCCTCCAAGAAAGGAGCAAGC
TCAGCTTACCTTGAGAACTCGAAAGGTGCCCAACAACCTCTGCTCTGAGATAAAAATGAACAAGAAAG
GCGCTAGAATTGATTTTAAAGATGTGACTTACTTAACAGAAGAGAAGGTATATGAAATCTTGAATTATG
TAGAGAAAGAGAGGATTATCCCTTTAATCCGTGTTATTGGAAGAGTTTTTCTAGTGCTGAGGCATTG
GTACAGAGCTTCCGAAAAGTTAAACAACACACCAAGGAAGAAGTAAATCTCTTCAAGCAAAAGATGAAG
ACAAAGATGAAGATGAAAAGGAAAAAGCTGCATGTTCTGCTGCTGCTATGGAAGAAGACTCAGAAGCATC
TTCCTCAAGGATAGGTGATAGCTCACAGGGAGACAACAATTTGCAAAAATAGGCCCTGATGATGTGCT
GTGGATATTGATGCCATTAGAAGGGTCTACACCAGATTGCTCTAATGAAAAAATGAACTGCCTTTC
TCAATGCACCTGTATATTTGTCACCTAACGTGGAATGTGACTTGACGTATCACAATGTAATCTCTGAGA
TCCTAATTATCTGAATTTGTTTATTATCGTAATGGAGAATAGAAATCTCCACAGTCTGAATATCTGGAA
ATGGCTTTGCCATTATTTGCAAAGCGATGAGCAAGCTACCCCTTGACAGCCAAGGAAAAGTATCAGAC
TGTGGTCTAAATACAATGCAGACCAGATTCCGAGAATGATGGAGACATTTAGCAACTTATTACTTATAA
AGTCATAAGCAATGAATTAACAGTCAAAATCTAGTGAATGATGATGATGCCATTGTTGCTGCTCGAAG
TGCTTGAAAAATGGTTTACTATGCAAAATGATGGGAGGGGAAGTGGACACAAATCACAATGAAGAAGATG
ATGAAGAGCCCATCCCTGAGTCCAGCGAGCTGACACTTCCAGAACTTTGGGAGAAGAAAGAAAACAA
GAAAGGTCCTCGAGTGGACCCCTGAAACTGAACCTGGTGTAAAACCTGGATTGTCGAAAACCACTT
ATCCCTTTTGAAGAGTTTATTAATGAACCACTGAATGAGGTTCTAGAAATGGATAAAGATATACTTTTT
TCAAAGTAGAAAACAGAGAACAATTTCTCTTTATGACATGTCCCTTTATATTGAATGCTGTCACAAGAA
TTTGGGATTATATTATGACAATAGAATTCGCATGTACAGTGAACGAAGAATCACTGTTCTCTACAGCTTA
GTTCAAGGACAGCAGTTGAATCCATATTTGAGACTCAAAGTTAGACGTGACCATATCATAGATGATGCAC
TTGTCCGGCTAGAGATGATCGCTATGGAATCCTGCAGACTTGAAGAAGCAGTTGATGTGGAATTTGA
AGGAGAACAAGGAGTTGATGAGGGAGGTGTTCCAAAGAATTTTTTTCAGCTGGTTGTGGAGGAAATCTTC
AATCCAGATATTGGTATGTTACATACGATGAATCTACAAAATGTTTTGGTTTAAATCCATCTTCTTTTG
AACTGAGGGTCAGTTTACTCTGATTGGCATAGTACTGGGTCTGGCTATTTACAATAACTGTATACTGGA
TGTACATTTTCCATGGTTGTCTACAGGAAGCTAATGGGGAAAAAGGAACTTTTCGTGACTTGGGAGAC
TCTCACCCAGTTCTATATCAGAGTTTAAAAGATTTATTGGAGTATGAAGGGAATGTGGAAGATGACATGA
TGATCACTTTCCAGATATCACAGACAGATCTTTTTGGTAACCCAATGATGTATGATCTAAAAGGAAAATGG
TGATAAAATCCAATTACAAATGAAAACAGGAAGGAAATTTGTCAATCTTTATTCTGACTACATTCTCAAT
AAATCAGTAGAAAAACAGTTCAAGGCTTTTCGGAGAGGTTTTCATATGGTGACCAATGAATCTCCCTTAA
AGTACTTATTACAGACCAGAAGAAATGAATTGCTTATATGTGGAAGCCGGAATCTAGATTTCCAAGCACT
AGAAGAACTACAGAATATGACGGTGGCTATACCAGGGACTCTGTTCTGATTAGGGAGTTCTGGGAAATC
GTTGAGGACTAGGAAAAATTAAGATGATTATAGCCAAAAATGGCCAGACACAGAAGGTTACCTACATC
TCATACTTGCTTTAATGTGCTTTTACTTCCGGAATACTCAAGCAAAAGAAAACTTAAAGAGAGATTGTTG
AAGGCCATCACGTATGCCAAAGGATTTGGCATGCTGTAA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_130838 unedited</p> <p>GCGGAAANCACCATTCGCACGAGGCTGATTTTATATTTACCAGCTCCTCAGAATTTGGC GAAATATGAGTTATTAAGCCTACGCTCAGATCAAGGTAGCAGCTAGACTGGTGTGACAAC CTGTTTTTAATCAGTGACTCAAAGCTGTGATCACCTGATGTCACCGAATGGCCACAGCT TGNAATAGATAGTTACAGTGGAGGTAAGGAGTGGCTGCAGGATGGAGAAGCTGCACC AGTGTTATTGGAATGCCAGCAGGTTATTTTTGTTTTGCAAGCCAGCTCTGCCTCCTTA CAGTATGACATCTGATGCTGGAGGTCGCACTTTCAAAAATGAGTCAGCTGGTACATGGG GTTATCATCAATTTTAGCTCTTCTGTCTGGGAGATACAAGTTTGAAGCAATCTTGGGG TACTTACCACAAGGCTGGTGGAGACCAGATCAGGAGAACCTCAGTCTGACGACATTGAA GCTAGCCGAATGAAGCGAGCAGCTGCAAAGCATCTAATAGAACGCTACTACCACCAGTTA ACTGAGGGCTGTGAAATGAAGCCTGCACGAATGAGTTTTGTGCTTCTGTCCAACCTTT CTTCTGATGGATAAATGCAGCAGCTATTAAGCCCTCGAGCTTTATAAGATTAATGCA AAACTCTGTGATCCTCATCCCTCAAGAAAGGAGCAAGCTCAGCTTACCTTGAGAACTCG AAGGTGCCCCCAACAACCTCTGCTCTGAGATAAAATGAACAAGAAAGGCGCTAGAATTGA TTTTAAAGATGTGACTTACTTNACAGAAAGAAAGGTATATGAAATCTTTGATATGTAGA GAAAGAGAGGATTATCCCTTTATCCGTGTTATTGGAAGAGT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_130838 unedited</p> <p>TTTTNAAAANNNTTATCTNTGNACCGCGNNCCGCATTCTNANGATCGAGTTTTTTTT TTTTTTTTTGGTTATTTTGTGTTTTGTTTTACAGCATGCCAAATCCTTTGGCATA CGTGATGGCCTTCAACAATCTCTTTAAGTTTTCTTTGCTTGAGTATCCGGAAGTAA AAGCACATTAAGCAAGTATGAGATGTAGGTAACCTTTCTGTGTCTGGGCCATTTTTGGC TATAATCATCTTTAATTTTCTAGTCTCCACAGGTGCTCTGTCTGTGCCCGTTGTAAA CTGCAAGAAGAGTCTTTTCTGTTCATCTGTAATGAATGAACGATTTCCAGAACTCCC TAATCAGAACAGAGTCCCTGGTATAGCCACCGTCATATTTCTGTAGTTCTTCTAGTGCTT GGAAAACTAGATCCGGCTTNCACATANTAGCANTNCAATTNCTTCTGGTCTGAATAAGT ACTTTAAGGGAGGATCATTGGTCACCATATGAAAACCTCTCGAAAAGCCTTGAACNTGT TTTCTACTGATTTATTGAGAATGAGTCAGAATAAAGATGACAAAACTCTTCTGGGTTTCT TTGAATTGGAATTTTATCACCATTTTCTTAAAACATACATCATTGGTTACCAAAAAAAT CTGGCCGGGATATTTGGAAGGACATCATGGATTTTCCCATTCCCTTTTAACTCCATAAA ACTTTAAACCTTGATTTAAACCTGGGAAAGTTTCCAGTAACGAAAAGTCCCTTTTTTCC CATTACCTCTGAAACACCCTGGGAAAGGCCCTCCCGTTCCGGTTTTGAAAAGCCAAC CCCCTCTTGCCCATCAAAAAACTGCCCTCGTTTCAAAAAATGGTAACCCAAACATTTG GAAATTCGGGGGAACCAACCGTTGAAATTCCTCCCAACCTAAAAATTTTGAA ACCTCCTTAAACCC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_130838
Insert Size:	3110 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:	<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_130838.1 , NP_570853.1
RefSeq Size:	4491 bp
RefSeq ORF:	2559 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 (1) uses a downstream in-frame start codon, as compared to variant 2. The encoded isoform (1) 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.</p>