

Product datasheet for **SC116144**

UBE2E3 (NM_006357) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBE2E3 (NM_006357) Human Untagged Clone
Tag:	Tag Free
Symbol:	UBE2E3
Synonyms:	UBCH9; UbcM2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116144 sequence for NM_006357 edited (data generated by NextGen Sequencing)

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ATGTCCAGTGATAGGCAAAGGTCCGATGATGAGAGCCCCAGCACCAGCAGTGGCAGTTCA
GATGCGGACCAGCGAGACCCAGCCGCTCCAGAGCCTGAAGAACAAGAGGAAAGAAAACCT
TCTGCCACCCAGCAGAAGAAAAACCAAACCTCTAGCAAAACCACTGCTAAGTTATCC
ACTAGTGCTAAAAGAATTCAGAAGGAGCTAGCTGAAATAACCCTTGATCCTCCTCCTAAT
TGCAGTGCTGGGCCTAAAGGAGATAACATTTATGAATGGAGATCAACTATACTTGGTCCA
CCGGGTTCTGTATATGAAGGTGGTGTGTTTTTCTGGATATCACATTTTCATCAGATTAT
CCATTTAAGCCACCAAAGGTTACTTTCCGCACCAGAATCTATCACTGCAACATCAACAGT
CAGGGAGTCATCTGTCTGGACATCCTTAAAGACAACCTGGAGTCCCCTTTGACTATTTCA
AAGGTTTTGCTGTCTATTTGTTCCCTTTGACAGACTGCAACCCTGCGGATCCTCTGGTT
GGAAGCATAGCCACTCAGTATTTGACCAACAGAGCAGAACACGACAGGATAGCCAGACAG
TGGACCAAGAGATACGCAACATAA
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Clone variation with respect to NM_006357.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006357 unedited
 TCAAAATTTTGTAAATACGACTTTCCTATAGGGGCGGCCGCGATTTCGGCACGAGGTAGCGGGC
 CGCGAGCGGGCCGGGCGGGCGGCCGAGTTTTCCAAGAGATAAATTACCAAGATGTCCAG
 TGATAGGCAAAGGTCCGATGATGAGAGCCCCAGCACCAGCAGTGGCAGTTCAGATGCGGA
 CCAGCGAGACCCAGCCGCTCCAGAGCCTGAAGAACAAGAGGAAAGAAAACCTTCTGCCAC
 CCAGCAGAAGAAAAACACCAAACCTCTAGCAAAACCCTGCTAAGTTATCCACTAGTGC
 TAAAAGAATTCAGAAGGAGCTAGCTGAAATAACCCTTGATCCTCCTCCTAATTGCAGTGC
 TGGGCCTAAAGGAGATAACATTTATGAATGGAGATCAACTATACTTGGTCCACCGGGTTC
 TGTATATGAAGGTGGTGTGTTTTTCTGGATATCACATTTTCATCAGATTATCCATTTAA
 GCCACCAAAGGTTACTTTCCGCACCAGAATCTATCACTGCAACATCAACAGTCAGGGAGT
 CATCTGTCTGGACATCCTTAAAGACAACCTGGAGTCCCGCTTTGACTATTTCAAAGTTTT
 GCTGTCTATTTGTTCCCTTTTGACAGACTGCAACCCTGCGGATCCTCTGGTTGGAAGCAT
 AGCCACTCAGTATTTGACCAACAGAGCAGAACACGACAGGATAGCCAGACAGTGGACCAA
 GAGATACGCAACATAATTCACATAATTTGTATGCAGTGTGAAGGAGCAGAAAGCATCTTC
 TCACTGTGCTGCANATCTTTATAGCCTTTNACATACGGACTTCTGNGGATATGGTATACT
 GGATCTACTCTGGCTTTATCCCTTTGGAGCCTGGGGAGACTTCCAAAAAGGTTAAATGCTA
 TNCAGAGTAGAACTTTGTAGCTGTAGATAAGTATAGTTAAAACGCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006357 unedited
 CAATCTAGAGTCGAGTCTTT
 TTTTTTTTCAGGACCATGTTTTATTGGGTTTGAAAATAATACATAAGGGGCTTTTTGACC
 TACAAAGGTTAAAAGGAAATCCTTTCTTTACAACTGACAAAGTAAAAGGTTAAAACCTTT
 TTTACCAACAGCTTGACCCACATACTCAAAAATAAATCTGGGTTAAAAACAAAGGACATA
 TTTCTACCCATCTACAGTACTTTTATAACTTCATAACAATAATGAATTAGGCTAAAAG
 GCCCTATAATATTGGGAAAACCTTAAAGGACCAGTTTCCTTAGTACATCCCAAAACTTTTT
 TGATATCCCAAAAACAAAACCTTGCAAGTAGGCGTTTAAAACATAACTAATCTACAGTT
 ACAAAGTTCTACTCTTGATACCATTAACCTTTTTGGGGAGTCTCCAGGCTCCAAGGGAT
 AAAACCAAAGTAAAATCAGTTTAACCATTTCCCAAAAGTCCGTATTGAAAAGCCTATAA
 AGATTTGCACCACAGTGAGAAGATCCCTTCTGCTCCTTCACACTGAATACAAATAATGGG
 AATTATGTGGCGTATCTTTTGGCCCACTGTGGGCTATCCTGCGCGGTCTGCCCTGTTG
 GAAAAAACCGAGGGGTTATGCTTCCAACCAAAGGATCCCAAGTTTCCATTCTGCCAAAAG
 GAAACAATAAACACAAAACCTTTGAAAAATCAAAGCGGCCCTCCGTGTTTTTAAGATGCC
 ACAAAAAAACCCCTGCATGTGAGGTTCAAGAATAATCTGGGGCGAAAAACCTTGGCGG
 CTAAAAGGAACTCCGAAAAGTGGATTCCAAAAAACCCCTTTTATTAAACACCCGGG
 GCACAAAAANTAACCCCTCAAAGGTCCCCCTAGCCACCCGCCATAAGAGAGAAACA
 GGGTTCCCTCCCTTCGAATCTTAACCAAGGAAACAACAGGGTT

Restriction Sites:

NotI-NotI

ACCN:

NM_006357

Insert Size:

1350 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 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_006357.2](#), [NP_006348.1](#)

RefSeq Size: 1559 bp

RefSeq ORF: 624 bp

Locus ID: 10477

UniProt ID: [Q969T4](#)

Cytogenetics: 2q31.3

Domains: UBCc

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 E2 ubiquitin-conjugating enzyme family. The encoded protein shares 100% sequence identity with the mouse and rat counterparts, which indicates that this enzyme is highly conserved in eukaryotes. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jun 2013]

Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2, 3 and 4 encode the same protein.