

Recombinant Human UBE2E3

Cat. No. UBE2E3-31658TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human UBE2E3 expressed in <i>Saccharomyces cerevisiae</i> ; 207 amino acids, MWt 22.9 kDa. Protein is tagged with 25 kDa proprietary tag.
Species	Human
Description	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. Two alternatively spliced transcript variants encoding the same protein have been found for this gene.
Tissue specificity	Ubiquitously expressed at low levels. Highly expressed in skeletal muscle.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

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Sequences of amino acids	MSSDRQRSDDSPSTSSGSSDADQRDPAAPEPEEQEERKP SATQQKKNTKLSSK TTAKLSTSAKRIQKELAEITLDP PNC SAGPKGDNIYEW RSTILGPPGSVYEGGVFFL DITFSSDYPPFKPPKVTFRTRIYHCNINSQGVICLDILKDNWSPA LTISKVLLSICSL LTD CNPADPLVGSIATQYL TNRAEH DRIARQWTKRYAT
Sequence Similarities	Belongs to the ubiquitin-conjugating enzyme family.
Full Length	Full L.
GENE INFORMATION	
Gene Name	UBE2E3 ubiquitin-conjugating enzyme E2E 3 [Homo sapiens]
Official Symbol	UBE2E3
Synonyms	UBE2E3; ubiquitin-conjugating enzyme E2E 3; ubiquitin conjugating enzyme E2E 3 (homologous to yeast UBC4/5) , ubiquitin conjugating enzyme E2E 3 (UBC4/5 homolog, yeast); ubiquitin-conjugating enzyme E2 E3; Ubch9;
Gene ID	10477
mRNA Refseq	NM_182678
Protein Refseq	NP_872619
MIM	604151
Uniprot ID	Q969T4
Chromosome Location	2q31.3

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Pathway	Adaptive Immune System, organism-specific biosystem; Antigen processing: Ubiquitination & Proteasome degradation, organism-specific biosystem; Class I MHC mediated antigen processing & presentation, organism-specific biosystem;
Function	ATP binding; acid-amino acid ligase activity; ligase activity; nucleotide binding; ubiquitin-protein ligase activity;

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