

Recombinant Full Length Human UBE3A Protein, C Flag-Tagged

Cat. No. UBE3A-1699H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human UBE3A Protein, transcript variant 3, C-Myc/DDK-Tagged was expressed in HEK293T cell
Species	Human
Source	HEK293
Description	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.
Molecular Mass	99.9 kDa
AA Sequence	MATACKRSGEPQSDDIEASRMKRAAAKHLIERYHQLTEGCGNEACTNEFCASCPT FLRMDNNAAAIKAL ELYKINAKLCDPHPSKKGASSAYLENSKGAPNNSCSEIKMNKKGARIDFKDVTYLTE

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EKVYEILELCRER
 EDYSPLIRVIGRVFSSAEALVQSFRKVKQHTKEELKSLQAKDEDEKDEDEKEKAACSA
 AAMEEDSEASSSR
 IGDSSQGDNNLQKLGPDVSDIDAIRRVYTRLLSNEKIETAFLNALVYLSPNVECDL
 TYHNVYSRDPNY
 LNLFIIVMENRNLHSPEYLEMALPLFCKAMSKLPLAAQGKLIRLWSKYNADQIRRMME
 TFQQLITYKVIS
 NEFNSRNLVNDDDAIVAASKCLKMVYYANVVGGEVDTNHNEEDDEEPIPESELTLQ
 ELLGEERRNKKGP
 RVDPLETELGVKTLDCRKPLIPFEEFINEPLNEVLEMDKDYTFKVVETENKFSFMTCP
 FILNAVTKNLGL
 YYDNRIRMYSEERRITVLYSLVQGGQLNPYLRLKVRDHIIDDALVRLEMIAMENPADL
 KKQLYVEFEGEQ
 GVDEGGVSKEFFQLVVEEIFNPDIGMFTYDESTKLFWFNPSSFETEGQFTLIGIVLGL
 AIYNNCILDVHF
 PMVVYRKLMGKKGTFRDLGDSHPVLYQSLKDLLEYEGNVEDDMMITFQISQTDLFG
 NPMMYDLKENGDKI
 PITNENRKEFVNLYSDYILNKSVEKQFKAFRRGFHMTNESPPLYLFRPEEIELLICGS
 RNLDFQALEET
 TEYDGGYTRDSVLIREFWEIVHSFTDEQKRLFLQFTTGTDRAVPVGGGLGKLKMIIAKNG
 PDTERLPTSHTC
 FNVLLLPEYSSKEKLKERLLKAITYAKGFGML

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80°C.

Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol
Cytogenetics	15q11.2
Refseq Size	5211
Refseq ORF	2616
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

GENE INFORMATION

Gene Name	UBE3A ubiquitin protein ligase E3A [Homo sapiens (human)]
Official Symbol	UBE3A
Synonyms	ANCR; AS; E6-AP; EPVE6AP; HPVE6A
Gene ID	7337
mRNA Refseq	NM_000462.5
Protein Refseq	NP_570854
MIM	601623
UniProt ID	Q05086

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