

Recombinant Full Length Human UBE3A Protein, C-Flag-tagged

Cat. No. UBE3A-505HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human UBE3A Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	100.5 kDa
AA Sequence	MEKLHQCYWKSGEPQSDDIEASRMKRAAAKHLIERYYHQLTEGCGNEACTNEFCA SCPTFLRMDNNAAI KALELYKINAKLCDPHPSKKGASSAYLENSKGAPNNSCSEIK

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MNKKGARIDFKDVTYLTEEKVYEILELC REREDYSPLIRVIGRVFSSAEALVQSFRKV
 KQHTKEELKSLQAKDEDKDEDEKEKAACSAAMEEDSEAS SSRIGDSSQGDNNLQ
 KLGPDDVSVDIDAIRRVYTRLLSNEKIETAFLNALVYLSPNVECDLTYHNVYSRD PNY
 LNLFIIVMENRNLHSPEYLEMALPLFCKAMSKLPLAAQGKLIRLWSKYNADQIRRMME
 TFQQLITYK VISNEFN SRNLVNDDDAIVAASKCLKMVYYANVVGGEVDTNHNEEDDE
 EPIPESELTLQELLGEERRNK KGPRVDPLETELGVKTLDCRKPLIPFEEFINEPLNE
 VLEMDKDYTFFKVETENKFSFMTCPFILNAVTKN LGLYYDNRIRMYSEERRITVLYSLV
 QGQQLNPYLRLKVRRDHIIDDALVRLEMIAMENPADLKKQLYVEFE GEQGVDEGGV
 SKEFFQLVVEEIFNPDIGMFTYDESTKLFWFNPSSFETEGQFTLIGIVLGLAIYNNCILD
 VHFPVVYRKLMGKKGTFRDLDGSHPVLYQSLKDLLEYEGNVEDDMMITFQISQTD
 LFGNPMMYDLKENG DKIPITNENRKEFVNLYSDYILNKSVEKQFKAFFRRGFHMTNE
 SPLKYLFRPEEIELLICGSRNLDLFQAL EETTEYDGGYTRDSVLIREFWEIVHSFTDEQ
 KRLFLQFTTGTDRAVPVGGGLGKLKMIKNGPDTERLPTS
 HTCFNVLLLPEYSSKEKLKERLLKAITYAKGFGMLTRTRPLEQKLISEEDLAANDILDY
 KDDDDKV

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 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome

Protein Pathways	Ubiquitin mediated proteolysis
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Full Length	Full L.
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GENE INFORMATION

Gene Name	UBE3A ubiquitin protein ligase E3A [Homo sapiens (human)]
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Official Symbol	UBE3A
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Synonyms	AS; ANCR; PIX1; E6-AP; HPVE6A; EPVE6AP
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Gene ID	7337
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mRNA Refseq	NM_000462.5
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Protein Refseq	NP_000453.2
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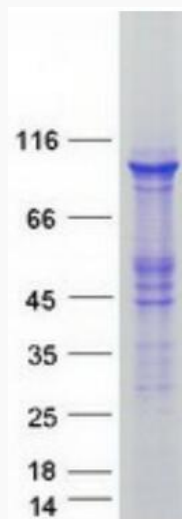
MIM	601623
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UniProt ID	Q05086
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Coomassie blue staining of purified UBE3A protein.

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