

# Recombinant Full Length Human UBE3A Protein, MYC/DDK-tagged

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human ubiquitin protein ligase E3A (UBE3A) Protein , transcript variant 3 fused with C-terminal Myc/DDK tag, was expressed in mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 99.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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handling conditions. Avoid repeated freeze-thaw cycles.

|                       |                                                       |
|-----------------------|-------------------------------------------------------|
| <b>Storage</b>        | Store at -80 centigrade.                              |
| <b>Concentration</b>  | >50 µg/mL as determined by microplate BCA method      |
| <b>Storage Buffer</b> | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
| <b>Full Length</b>    | Full L.                                               |

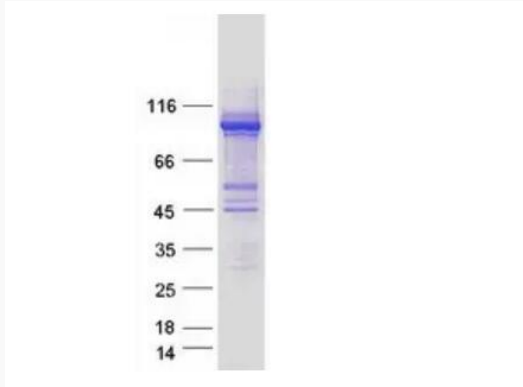
## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | UBE3A ubiquitin protein ligase E3A [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                                                   |
| <b>Official Symbol</b> | UBE3A                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>        | UBE3A; ubiquitin protein ligase E3A; AS; ANCR; PIX1; E6-AP; HPVE6A; EPVE6AP; ubiquitin-protein ligase E3A; CTCL tumor antigen se37-2; E6AP ubiquitin-protein ligase; HECT-type ubiquitin transferase E3A; human papilloma virus E6-associated protein; human papillomavirus E6-associated protein; oncogenic protein-associated protein E6-AP; renal carcinoma antigen NY-REN-54; EC 2.3.2.26 |
| <b>Gene ID</b>         | 7337                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>     | NM_000462                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Protein Refseq</b>  | NP_000453                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>MIM</b>             | 601623                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>UniProt ID</b>      | Q05086                                                                                                                                                                                                                                                                                                                                                                                        |

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**SDS-PAGE**

Coomassie blue staining of purified UBE3A protein. The protein was produced from HEK293T cells transfected with UBE3A cDNA clone using MegaTran 2.0.

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