# Recombinant Mouse Ube3a Protein, Myc/DDK-tagged

**Cat. No.** Ube3a-6802M **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Purified recombinant protein of mouse full-length ubiquitin protein ligase E3A (Ube3a), with C-terminal MYC/DDK tag, expressed in HEK293T cells. |
| **Species** | Mouse |
| **Source** | HEK293 |
| **Description** | E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and transfers it to its substrates. Several substrates have been identified including the ARNTL/BMAL1, ARC, RAD23A and RAD23B, MCM7 (which is involved in DNA replication), annexin A1, the PML tumor suppressor, and the cell cycle regulator CDKN1B. Additionally, may function as a cellular quality control ubiquitin ligase by helping the degradation of the cytoplasmic misfolded proteins. Finally, UBE3A also promotes its own degradation in vivo. Plays an important role in the regulation of the circadian clock: involved in the ubiquitination of the core clock component ARNTL/BMAL1, leading to its proteasomal degradation. Acts as a regulator of synaptic development by mediating ubiquitination and degradation of ARC. Synergizes with WBP2 in enhancing PGR activity. |
| **Molecular Mass** | 100.3 kDa |
| **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. |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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| **Storage** | Store at -80 centigrade after receiving vials. |
| **Concentration** | >50 μg/mL as determined by microplate BCA method |
| **Storage Buffer** | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol. |

## GENE INFORMATION

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| **Gene Name** | Ube3a ubiquitin protein ligase E3A [ Mus musculus (house mouse) ] |
| **Official Symbol** | Ube3a |
| **Synonyms** | UBE3A; ubiquitin protein ligase E3A; ubiquitin-protein ligase E3A; E6-AP ubiquitin protein ligase; ubiquitin conjugating enzyme E3A; oncogenic protein-associated protein E6-AP; Hpve6a; mKIAA4216; 4732496B02; 5830462N02Rik; A130086L21Rik; KIAA4216 |
| **Gene ID** | 22215 |
| **mRNA Refseq** | NM_011668 |
| **Protein Refseq** | NP_035798 |
| **UniProt ID** | O08759 |

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