

## Product datasheet for TP524630

### Ube3a (NM\_011668) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse ubiquitin protein ligase E3A (Ube3a), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR224630 representing NM_011668 Red=Cloning site Green=Tags(s)

MATAACKRSPGESQSEDIASRMKRAAAKHLEIRYYHQLTEGCGNEACTNEFCASCPTFLRMDNNAAAIKA  
LELYKINAKLCDPHPSKKGASSAYLENSKASNNSEIKMNMKKEGKDFKDVLYLTKKVEIYEFCESED  
YSPLIRVIGRIFSSAEALVLSFRKVKQHTKEELKSLQEKDEDEKDEDEKEKAACSAAMEEDSEASSSRMG  
DSSQGDNNVQKLGPDVTDIDAIRRVYSSLLANEKLETAFLNALVYLSPNVECDLTYHNVYTRDPNYLN  
LFIIVMENSNLHSPEYLEMALPLFCKAMCKLPLEAQGKLIRLWSKYSDQIRMMETFQQLITYKVISNE  
FNSRNLVNDDDAIVAASKCLKMVYYANVVGGDVDTNHNEEDDEEPIPESELTLQELLGDERRNKKGPRV  
DPLETELGVKTLDCRKPLISFEFINEPLNDVLEMDDKDYTFKVFETENKFSFMTCPFILNAVTKNLGLY  
DNRIRMYSEIRITVLYSLVQGGQLNPYLRLKVRDHIIDDALVRLEMIAMENPADLKKQLYVEFEGEQGV  
DEGGVSKEFFQLVVEIFNPDIGMFTYDEATKLFWFNPSSFETEGQFTLIGIVLGLAIYNNCILDVHFPM  
VYRKLGMKGGTFRDLGDSHPVLYQSLKDLLEYEGSVEDDMMITFQISQTDLFGNPMMYDLKENGDKIPI  
TNENRKEFVNLYSDYILNKSVEKQFKAFRRGFHMVTNESPLKYLFRPEEIELLICGSRNLDFALEETTE  
YDGGYTRESVIREFWEIVHSFTDEQKRLFLQFTTGTDRAPVGGGLGKLMIIAKNGPDERLPTSHTCFN  
VLLLPEYSSKEKLERLLKAITYAKGFGML

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

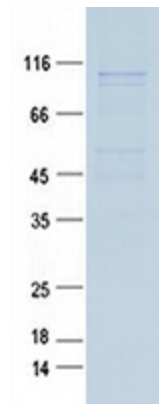
Tag:	C-MYC/DDK
Predicted MW:	100.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_035798</a>
<b>Locus ID:</b>	22215
<b>UniProt ID:</b>	<a href="#">O08759</a> , <a href="#">Q5DTH1</a>
<b>RefSeq Size:</b>	5097
<b>Cytogenetics:</b>	7 33.95 cM
<b>RefSeq ORF:</b>	2610
<b>Synonyms:</b>	4732496B02; 5830462N02Rik; A130086L21Rik; Hpve6a; mKIAA4216
<b>Summary:</b>	<p>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 (PubMed:20211139, PubMed:24728990). 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 (By similarity). 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 (PubMed:24728990). Acts as a regulator of synaptic development by mediating ubiquitination and degradation of ARC (PubMed:20211139). Synergizes with WBP2 in enhancing PGR activity (By similarity). [UniProtKB/Swiss-Prot Function]</p>

### Product images:



Purified recombinant protein Ube3a was analyzed by SDS-PAGE gel and Coomassie Blue Staining.