

## Product datasheet for TP311950M

### E2 230K (UBE2O) (NM\_022066) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Homo sapiens ubiquitin-conjugating enzyme E2O (UBE2O), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC211950 representing NM_022066 Red=Cloning site Green=Tags(s)

MADPAAPTAAAPAPAQAPAPAPEAVPAPAAAAPVPAPAPASDSASGPSSDSGPEAGSQRLLFSHDLVSGRY  
RGSVHFGLVRLIHGEDSDSEGEIEGRGSSGCSEAGGAGHEEGRASPLRRGYVRVQWYPEGVKQHVKETKL  
KLEDRSVPRDVVRHMRSTDSQCGTVIDVNIDCAVKLIGTNCIIPVNSKDLQHIWPFMYGDYIAYDCWL  
GKVYDLKNQIILKLSNGARCSMNTEGAKLYDVCPhVSDSGLFFDDSYGFYPGQVLIGPAKIFSSVQWLS  
GVKPVLSKSKFRVVEEVQVVELKVTWITKSFPCGGTDSVSPPPSVITQENLGRVKRLGCFDHAQRQLG  
ERCLYVFPKVEPAKIAWECPEKNCAQGEKSMKVKRLLKQVVRIMSCSPDTQCSRDHSMEDPDKKGE  
SKTKSEASASPEETPDGSASPVEMQDEGAEEPHEAGEQLPPFLLKEGRDDLHSAEQDADDEAADTDD  
TSSVTSSASSTSSQSGSGTSRKKSIPLSIKLNKRKHKRKKNKITRDFKPGDRVAVEVVTMTSADVMWQ  
DGSVECNIRSNDLFPVHLDNNEFCPGDFVVDKRVQSCPDPVYGVVQSGDHIGRTCMVKWFKLRPSGDD  
VELIGEEEDVSVDIADHPDFRFRRTTDIRIGNTEGAPHKEDPSVGQVARVDVSSKVEVWADNSKT  
IILPQHLYNIESEIEESDYDSVEGSTSGASSDEWEDSDSWETDNLVEDEHPKIEEPIPPLEQVPAPE  
DKGVWISSEEAATAAVQGAVAMAAPMAGLMEKAGKDGPPKSFRELKEAIKILES LKNMTVEQLLTGSPTSP  
TVEPEKPTREKKFLDDIKLQENLKKTLDNVAIVEEEKMEAVPDVERKEDKPEGQSPVKAEWPSVLC  
QQCGGKPGVTFTSAKGEVFSVLEFAPSNHSFKKIEFQPPEAKKFFSTVRKEMALLATSLPEGIMVKTFFED  
RMDLFSALIKGPTRTPYEDGLYFDIQLPNIYPAVPPHFCYLSQCSGRLNPNLYDNGKVCVSLGTWIGK  
GTERWTSKSSLLQVLISIQGLILVNEPYNEAGFSDRGLQEGYENSRCYNEMALIRVVQSMTQLVRRPP  
EVFEQEIRQHFSTGGWRLVNRIESWLETHALLEKAQALPNGVVKASSSPEPPAVAELSDSGQEPEDGGP  
APGEASQGSDEGGAQGLASASRDHTDQTSETAPDASVPPSVKPKKRRRSYRSFLPEKSGYPDIFGFLFP  
LSKGFISIRGVLTFRAALLEAGMPECTEDK

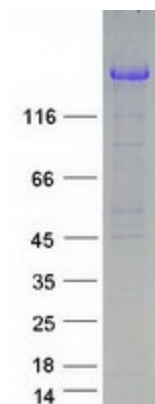
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	141.1 kDa



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<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<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_071349</a>
<b>Locus ID:</b>	63893
<b>UniProt ID:</b>	<a href="#">Q9C0C9</a>
<b>RefSeq Size:</b>	5073
<b>Cytogenetics:</b>	17q25.1
<b>RefSeq ORF:</b>	3876
<b>Synonyms:</b>	E2-230K
<b>Summary:</b>	<p>E2/E3 hybrid ubiquitin-protein ligase that displays both E2 and E3 ligase activities and mediates monoubiquitination of target proteins (PubMed:23455153, PubMed:24703950). Negatively regulates TRAF6-mediated NF-kappa-B activation independently of its E2 activity (PubMed:23381138). Acts as a positive regulator of BMP7 signaling by mediating monoubiquitination of SMAD6, thereby regulating adipogenesis (PubMed:23455153). Mediates monoubiquitination at different sites of the nuclear localization signal (NLS) of BAP1, leading to cytoplasmic retention of BAP1. Also able to monoubiquitinate the NLS of other chromatin-associated proteins, such as INO80 and CXXC1, affecting their subcellular location (PubMed:24703950). Acts as a regulator of retrograde transport by assisting the TRIM27:MAGEL2 E3 ubiquitin ligase complex to mediate 'Lys-63'-linked ubiquitination of WASHC1, leading to promote endosomal F-actin assembly (PubMed:23452853). [UniProtKB/Swiss-Prot Function]</p>
<b>Protein Pathways:</b>	Ubiquitin mediated proteolysis

**Product images:**

Coomassie blue staining of purified UBE2O protein (Cat# [TP311950]). The protein was produced from HEK293T cells transfected with UBE2O cDNA clone (Cat# [RC211950]) using MegaTran 2.0 (Cat# [TT210002]).