

## Product datasheet for **TP509481**

### Usp2 (NM\_016808) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse ubiquitin specific peptidase 2 (Usp2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR209481 representing NM_016808 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MSQLSSTLKRYTESSRYTDAPYAKPGYGTYTPSSYGANLAASFLEKEKLGFKPVSPSFLPRPRTYGPSS  
ILDCDRGRPLLRSDIIGSSKRSESQTRGNERPSGSLNGGSGFSYGVSSNSLSYLPMNARDQGVTLSQKK  
SNSQSDLARDFSSLRTSDGYRTSDGYRTSEGFRIDPGNLGRSPMLARTRKECALQGLYQAASRSEYLT  
YLENYGRKGSAPQVLTQAPPPSRVPEVLSPTYRPSGRYTLWEKSKGQASGSPSRSSPGRDTMNSKSAQGL  
AGLRNLGNTCFMNSILQCLSNTRERLDYCLQRLYMRDLGHTSSAHTALMEEFAKLIQTIWTSSPNDVVSP  
SEFKTQIQRYAPRFMGYNQQDAQEFLRFLLDGLHNEVNRVAARPKASPETLDHLPDEEKGRQMWRKYLER  
EDSRIGDLFVGQLKSSLTCTDCGYCSTVDFPFDLWDLSPKAKRGYPEVTLMDCMRLFTKEDILDGDEKPTC  
CRCRARKRCIKKFSVQRFKILVLHLKRFSESRIRTSKLTTFVNFPLRDLDLREFASENTNHAVYNLYAV  
SNHSGTTMGGHYTAYCRSPVTGEWHTFNDSSVTPMSSQVRTSDAYLLFYELASPPSRM

**SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-MYC/DDK
Predicted MW:	70 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.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



[View online »](#)

RefSeq: [NP\\_058088](#)

Locus ID: 53376

UniProt ID: [O88623](#)

RefSeq Size: 3785

Cytogenetics: 9 A5.1

RefSeq ORF: 1857

Synonyms: B930035K21Rik; Ubp41

**Summary:** Hydrolase that deubiquitinates polyubiquitinated target proteins such as MDM2, MDM4 and CCND1 (By similarity). Isoform 1 and isoform 2 possess both ubiquitin-specific peptidase and isopeptidase activities (By similarity). Deubiquitinates MDM2 without reversing MDM2-mediated p53/TP53 ubiquitination and thus indirectly promotes p53/TP53 degradation and limits p53 activity (By similarity). Has no deubiquitinase activity against p53/TP53 (By similarity). Prevents MDM2-mediated degradation of MDM4 (By similarity). Plays a role in the G1/S cell-cycle progression in normal and cancer cells (By similarity). Plays a role in the regulation of myogenic differentiation of embryonic muscle cells (By similarity). Regulates the circadian clock by modulating its intrinsic circadian rhythm and its capacity to respond to external cues (PubMed:23213472, PubMed:25238854, PubMed:26756164). Associates with clock proteins and deubiquitinates core clock component PER1 but does not affect its overall stability (PubMed:23213472). Regulates the nucleocytoplasmic shuttling and nuclear retention of PER1 and its repressive role on the clock transcription factors CLOCK and ARNTL/BMAL1 (PubMed:25238854).[UniProtKB/Swiss-Prot Function]