

## Product datasheet for **TP329472L**

### USP24 (NM\_015306) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human ubiquitin specific peptidase 24 (USP24), 1 mg
Species:	Human
Expression Host:	HEK293T



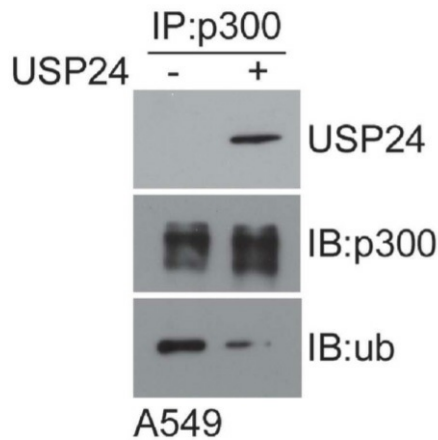
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**Expression cDNA** >RC229472 representing NM\_015306  
**Clone or AA** Red=Cloning site Green=Tags(s)  
**Sequence:**

MESEEEQHMTTLLCMGFSDPATIRKALRLAKNDINEAVALLTNERPGLDYGGEYPMDSGGGSPSPGGGGP  
 RGDGGGDGGGGGSPRGGSTGGGGGFDPPIPAYHEVDAEKNDENGNCSGEGIEFPTTNLYELESRLTDHW  
 SIPYKREESLGKCLLASTYLARLGLSESDENCRRFMDRCMPEAFKLLTSSAVHKWGTETIHEGIYNMML  
 LIELVAERIKQDPIPTGLLGVLTMFNPDNEYHFKNRMKVSQRNWAEEVFGEGNMFAVSPVSTFQKEPHGW  
 VVDLVNKFGEELGGFAAIQAKLHSEDIELGAVSALIQPLGVCAEYLNSSVQPMMLDPVILTTIQDVRVVEE  
 KDLKDKRLVSIPELLSAVKLLCMRFQPDLVITVDDLRLDILLRMLKSPHFSAKMNSLKEVTKLIEDSTLS  
 KSVKNAIDTDRLLDWLVENSVLSIALEGNIDQAQYCDRIKGIIELLGSKLSDELTKIWKIQSGQSSTVI  
 ENIHIIAAAANKFNSDQLNHLFVLIQKSWETESDRVRQKLLSLIGRIGREARFETTSKVLVDLWELAH  
 LPTLPSSLIQALEEHLTILSDAYAVKEAIKRSYIHKCIEDIKRPGEWGSGLEKNKKGDFKSSQLNPNQFV  
 WVPALRQLHEITRSFIKQTYQKQDKSIIQDLKKNFEIVKLVGSLIACHRLAAAVAGPGGLSGSTLVLDG  
 RYTYREYLEAHLKFLAFFLQEATLYLGNWRAKEIWECLVTGQDVCELDREMCFEWFQKQHDLESVDVQQQ  
 LFKEKILKLESYEITMNGFNLFKTFEENVNLCDHRLKRQGAQLYVEKLELIGMDFIWKIAMESPDEEIAN  
 EAIQLIINYSYINLNPRLKSDSVSLHKKFIADCYTRLEAASSALGGPTLTHAVTRATKMLTATAMPTVAT  
 SVQSPYRSTKLVIIERLLLAERYVITIEDFYSVPRTILPHGASFHGHLLTLNVTYESTKDTFTVEAHSN  
 ETIGSVRWKIAKQLCSPVDNIQIFTNDSLLTVNKDQKLLHQLGFSDEQILTVKTSVSGTSPSGSSADSSTS  
 SSSSSGVFSSSYAMEQEKSLPGVVMALVCNVFDMLYQLANLEEPRLTRVRKLLLIPTDPAIQEALDQ  
 LDSLGRKKTLLSESSQSSKSPSLSSKQQHQPSASSILELFRSFAPGMSTFRVLYNLEVLSSKLMPTAD  
 DDMARCAKSFCEFLKAGGLSLVNVQMQRDSIPSEVDYETRQGVYSICLQLARFLLVQTMPTLLDEDL  
 TKDGIEALSSRPFRNVSQRQMSLCGTPEKSSYRQLSVSDRSSIRVEEIIIPARVAIQTEVSDFTST  
 VACFMRLSWAAAAGRLDLVGSSQPIKESNSLCPAGIRNRLSSSSGNSCSSGSEGEVALHAGICVRQQSVS  
 TKDSLIAGEALLVTCLQLRSQQLASFYNLPCVADFIIDILLGSPSAEIRRACDQLYTSLQTDTSVHP  
 DVQKPNQFLLGVILTAQLPLWSPTSIMRGNVNRLLSQCMYFDLRCQLLDDLTSEMELRISPATMLEL  
 EITWLDNFEPNRTAECETSEADNILLAGHLRLIKTLLSLCGAEKEMLGSSLIKPLDDFLFRASRIILNS  
 HSPAGSAAISQQDFHPKCSTANSRLAAYEVLVMLADSSPSNLQIIKELLSMHHQPDPALTKEDYLPV  
 DSRSSGFVGLRNGGATCYMNAVFFQQLYMQGPLPESLLSVDVDDTNPDDSVFYQVQSLFGHLMESKLQYY  
 VPENFWKIFKMWNKELYVREQQDAYEFFTSLIDQMDEYLKMKGRDQIFKNTFQGIYSQKICKDCPHRYE  
 REEAFMALNLGVTSCQSLEISLDQFVRGEVLEGSNAYYCEKCKEKRITVKRTCIKSLPSVLVIHLMRFGF  
 DWESGRSIKYDEQIRFPWMLNMEPYTVSGMARQDSSSEVGENGRSVDQGGGGSPRKKVALTENYELVGI  
 VHSGQAHAGHYYSFIKDRRGCGKWKYKFNDTVIEEFDLNDETLEYECFGEYRPKVYDQTNPYTDVRRR  
 YWNAYMLFYQVRVSDQNSPVLPPKSRVSVRQEAEDLSLSAPSSPEISPQSSPRPHRPNDRLSILTCLVK  
 KGEKKGLFVEKMPARIYQMVRDENLKFMKNRDVYSSDYFSVLSLASLNATKLKHPYPCMAKVSLQAI  
 QFLFQTYLRTKKKLRVDTEEWIATIEALLSKSFDACQWLVEYFISSEGRELIKIFLLECNVREVRVAVAT  
 ILEKTLDLAFYQDKLKSLSLHQLLEVLALLDKDVPENCKNCAQYFFLNTFVQKQGIRAGDLLLRHSALR  
 HMISFLLGASRQNNQIRRWSSAQAREFGNLHNTVALLVHSDVSSQRNVAPGIFKQRPPIAPSSPLLP  
 LHEEVEALLFMSEGKPYLLEVMFALRELTGSLALIEMVYCCFCNEHFSFTMLHFKNQLETAPPHELK  
 NTFQLLHEILVIEDPIQVERVKVFETENGLLALMHHSNHVDSSRCYQCVKFLVTLAQKCPAAKEYFKEN  
 SHHWSWAVQWLQKKMSEHYWTPQSNVSNSTGKTFQRTISAQDTLAYATALLNEKEQSGSSNGSESSPA  
 NENGRHLQGGSESPMMIGELRSDLDDVDP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	294.2 kDa
<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>Bioactivity:</b>	In vitro deubiquitination assay (PMID: <a href="#">27991932</a> )
<b>Preparation:</b>	NULL or Add: Recombinant proteins 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_056121</a>
<b>Locus ID:</b>	23358
<b>UniProt ID:</b>	<a href="#">Q9UPU5</a>
<b>Cytogenetics:</b>	1p32.3
<b>RefSeq ORF:</b>	7860
<b>Summary:</b>	Modification of cellular proteins by ubiquitin is an essential regulatory mechanism controlled by the coordinated action of multiple ubiquitin-conjugating and deubiquitinating enzymes. USP24 belongs to a large family of cysteine proteases that function as deubiquitinating enzymes (Quesada et al., 2004 [PubMed 14715245]).[supplied by OMIM, Mar 2008]
<b>Protein Families:</b>	Druggable Genome, Protease

**Product images:**


USP24 decreases the p300 ubiquitination. A549 cell lysates were immunoprecipitated with an anti-p300 antibody. IP samples were used to perform the in vitro deubiquitination assay with recombinant human USP24 (50 ug/ml) (OriGene [TP329472]) and USP24, p300. Ubiquitinated p300 levels were evaluated in Western blot with antibodies against the indicated proteins. Figure cited from Oncogene, PMID: 27991932



Coomassie blue staining of purified USP24 protein (Cat# [TP329472]). The protein was produced from HEK293T cells transfected with USP24 cDNA clone (Cat# [RC229472]) using MegaTran 2.0 (Cat# [TT210002]).