

## Product datasheet for TP323407L

### USP37 (NM\_020935) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human ubiquitin specific peptidase 37 (USP37), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC223407 representing NM_020935 Red=Cloning site Green=Tags(s)

MSPLKIHGPIRIRSMQTGITKWKEGSFEIVEKENKVSLVWHYNTGGIPRIFQLSHNIKNVVLRPSGAKQS  
RLMLTLQDNSFLSIDKVPSKDAEEMRLFLDAVHQNRLPAAMKPSQSGSGFMAILGSRYSQKETSRLSYS  
DNQASAKRGSLETKDDIPFRKVLGNPGRGSIKTAVAGSGIARTIPSLTSTSTPLRSGLLENRTEKRKRMIS  
TGSELNEDYPKENDSSSNKAMTDPSRKYLTSREKQLSLKQSEENRTSGLLPLQSSSFYGSRAGSKEHS  
SGGTNLDRTNVSSQTPSAKRSLGFLPQPVPVLSVKKLRNCQDYTGWNKPRVPLSSHQQQLQGFSNLGNTC  
YMNAILQSLFSLQSFANDLLKQGIPWKKIPLNALIRRFHLLVKKDICNSETKKDLLKKVKNASATAER  
FSGYMQNDAHEFLSQCLDQLKEDMEKLNKTWKTEPVSGEENSPDISATRAYTCPVITNLEFEVQHSIICK  
ACGEIIPKREQFNDLSIDLPRRKKPLPPRSIQDSLDFRAEELEYSCEKCGGKCALVRHKFNRLPRVLI  
LHLKRYSFNVALSLNKGQVVIIPRYLTLSSHCTENTKPPFTLGWSAHMAISRPLKASQMVNSCITSPS  
TPSKKFTFKSKSSLALCLDSDSEDELKRSVALSQRCEMLGNEQQQEDLEKDSKLCPIEPDKSELENSGF  
DRMSEELLAAVLEISKRDASPSLSHEDDDKPTSSPDTGFAEDDIQEMPENPDTMETEKPKTITELDPAS  
FTEITKDCDENKENKTPEGSQGEVDWLQQYDMEREREQELQQALAQSLQEQAWEQKEDDDLKRATELS  
LQEFNNSFVDALGSDSDSGNEDVDFMEYTEAEAEELKRNAETGNLPHSYRLISVSHIGSTSSSGHYISD  
VYDIKKQAWFTYNDLEVSKIQEAAVQSDRDRSGYIFFYMHKEIFDELLETEKNSQSLSTEVGKTRQAS

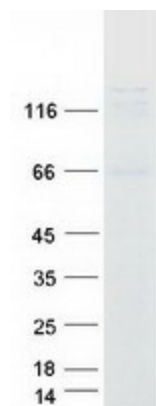
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	110 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
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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<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_065986</a>
<b>Locus ID:</b>	57695
<b>UniProt ID:</b>	<a href="#">Q86T82</a> , <a href="#">A0A024R416</a>
<b>RefSeq Size:</b>	8015
<b>Cytogenetics:</b>	2q35
<b>RefSeq ORF:</b>	2937
<b>Summary:</b>	Deubiquitinase that antagonizes the anaphase-promoting complex (APC/C) during G1/S transition by mediating deubiquitination of cyclin-A (CCNA1 and CCNA2), thereby promoting S phase entry. Specifically mediates deubiquitination of 'Lys-11'-linked polyubiquitin chains, a specific ubiquitin-linkage type mediated by the APC/C complex. Also mediates deubiquitination of 'Lys-48'-linked polyubiquitin chains in vitro. Phosphorylation at Ser-628 during G1/S phase maximizes the deubiquitinase activity, leading to prevent degradation of cyclin-A (CCNA1 and CCNA2) (PubMed:21596315). Plays an important role in the regulation of DNA replication by stabilizing the licensing factor CDT1 (PubMed:27296872).[UniProtKB/Swiss-Prot Function]
<b>Protein Families:</b>	Protease

**Product images:**

Coomassie blue staining of purified USP37 protein (Cat# [TP323407]). The protein was produced from HEK293T cells transfected with USP37 cDNA clone (Cat# [RC223407]) using MegaTran 2.0 (Cat# [TT210002]).