

Product datasheet for PH323407

USP37 (NM_020935) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	USP37 MS Standard C13 and N15-labeled recombinant protein (NP_065986)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC223407
Predicted MW:	110 kDa
Protein Sequence:	>RC223407 representing NM_020935 Red=Cloning site Green=Tags(s)

MSPLKIHGPIRIRSMQTGITKWKEGSFEIVEKENKVSLVVHYNTGGIPRIFQLSHNIKNVVLRPSGAKQS
RLMLTLQDNSFLSIDKVPSKDAEMRLFLDAVHQNRLPAAMKPSQGSFGAILGSRSTSQKETSRLSYS
DNQASAKRGSLETKDDIPFRKVLGNPGRGSIKTVAGSGIARTIPSLTSTSTPLRSGLLENRTEKRKRMS
TGSELNEDYPKENDSSNNKAMTDP SRKYL TSSREKQLSLKQSEENRTSGLLPLQSSSFYGRSAGSKEHS
SGGTNLDRTNVSSQTPSAKRS LGFLPQPVPVLSVKKLR CNQDYTGWNKPRVPLSSHQQQLQGF SNLGN TC
YMNAILQSLFSLQSFANDLLKQIPWKKIPLNALIRRF AHLLVKKD ICNSETKKDLLKKVKNAISATAER
FSGYMQNDAHEFLSQCLDQLKEDMEKLNKTWKTEPVSGEENSPDISATRAYTCPVITNLEFEVQHSIICK
ACGEIIPKREQFNDSLIDLPRRKKPLPPRSIQDSLDFFRAE ELEYSC ECGGKCALVRHKFNRLPRVLI
LHLKRYSFNVALSLNKGQVVIIPRYLTLSSHCTENTKPPFTLGWSAHMAISRPLKASQMVNSCITSPS
TPSKKFTFKSKSSLALCLDSDSEDELKRSVALSQRLCEMLGNEQQQEDLEKDSKLCPIEPDKSELENSGF
DRMSEEEELAAVLEISKRDASPSL SHEDDDKPTSSPDTGFAEDDIQEMPENPDTMETEKPKTITELDPAS
FTEITKDCDENKENKTPEGSQGEVDWLQQYD MEREREQEELQQALAQSLQEAEWEQKEDDDLKRATELS
LQEFNNSFVDALGSDSDGNEDVDFMEYTEAEAEELKRNAETGNLPHSYRLISVVS HIGSTSSSGHYISD
VYDIKKQAWFTYNDLEVSKIQEAAVQSDRDRSGYIFFYMHKEIFDELLETEKNSQSLSTEVGKTRQAS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.



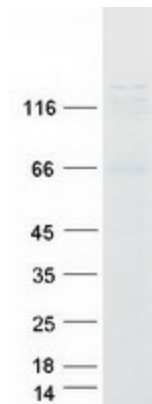
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RefSeq: [NP_065986](#)
RefSeq Size: 8015
RefSeq ORF: 2937
Locus ID: 57695
UniProt ID: [Q86T82](#), [A0A024R416](#)
Cytogenetics: 2q35

Summary: 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]

Protein Families: 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]).