

Product datasheet for PH308051

USP20 (NM_006676) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	USP20 MS Standard C13 and N15-labeled recombinant protein (NP_006667)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208051
Predicted MW:	101.9 kDa
Protein Sequence:	>RC208051 protein sequence Red=Cloning site Green=Tags(s)

MGDSRDLCPHLDSIGEVTKEDLLLKSKGTCQSCGVTGPNLWACLQVACPYVGCESFADHSTIHAQAKKH
NLTVNL TTFRLWCYACEKEVFLEQRLAAPLLGSSSKFSEQDPPPSHPLKAVPIAVADEGESESEDDLK
PRGLTGMKNLGNSCYMNAALQALSNCPPLTQFFLECGGLVRTDKKPALCKSYQKLVSEVWHKRPYSYVVP
TSLSHGIKLVNPMFRGYAQDQTQEFRLCLMDQLHEELKEPVVATVALTEARSDSSDTDEKREGDRSPSE
DEFLSCDSSDRGEGDGGQGRGGSSQAETELLIPDEAGRAISEKERMKDRKFSWGQRTNSEQVDEDADV
DTAMAALDQPAEAQPPSPRSSPCRTPEPDNDAHLRSSRSPSPVHHHEGHAKLSSPPRASPVRMAPSY
VLKKAQVL SAGSRRRKEQRYRSVSDIFDGSILSLVQCLTCDRVSTTVETFQDL SLP I PGKEDLAKLHSA
IYQNVPAKPGACGDSYAAQGWLAFIVEYIRRFVVSCTPSWFGP VV TLEDCLAFFAADELKGDNMYSCE
RCKKL R NGV KYCKVLR LPEILCIHLKFRHEVMYSFKINSHVSFPLEGLDLRPFLAKECTSQITTYD LLS
VI CHHGTAGSGHYIAYCQNVINGQWYEFDDQYVTEVHETVYVQNAEGYVLFYRKSSEEAMRERQVVSLAA
MREPSLLRFYVSREWLNKFNTFAEPGPITNQTF L CSHGGIPPHKYHYIDDLV VILPQNVWEHLYNRFGGG
PAVNHL YVCSICQVEIEALAKRRRIEIDTFIKLNKAFQAEESPGVIYICISMQWFREWEAFVKGKDNPPG
PIDNSRIAQVKGSGHVQLKQGADYGGI SEETWYTLNSLYGGGPEIAIRQSV AQPLGPENLHGEQKIEAET
RAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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.



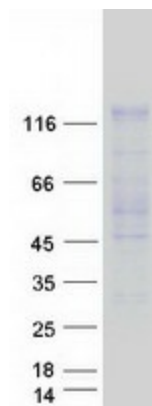
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RefSeq:	NP_006667
RefSeq Size:	4538
RefSeq ORF:	2739
Synonyms:	hVDU2; LSFR3A; VDU2
Locus ID:	10868
UniProt ID:	Q9Y2K6
Cytogenetics:	9q34.11

Summary: This gene encodes a ubiquitin specific processing protease that was first identified as a substrate of the VHL (von Hippel-Lindau disease) protein E3 ubiquitin ligase complex. In addition to being ubiquitinated by the VHL-E3 ligase complex, this enzyme deubiquitinates hypoxia-inducible factor (HIF)-1 alpha and thereby causes increased expression of HIF-1 alpha targeted genes which play a role in angiogenesis, glucose metabolism, cell proliferation and metastasis. The enzyme encoded by this gene also regulates G-protein coupled receptor signaling by mediating the deubiquitination of beta-2 adrenergic receptor (ADRB2). This enzyme is a ubiquitously expressed thiolester hydrolase. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jan 2013]

Protein Families: Druggable Genome, Protease

Product images:



Coomassie blue staining of purified USP20 protein (Cat# [TP308051]). The protein was produced from HEK293T cells transfected with USP20 cDNA clone (Cat# [RC208051]) using MegaTran 2.0 (Cat# [TT210002]).