

## Product datasheet for **TP308051M**

### USP20 (NM\_006676) Human Recombinant Protein

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Recombinant Proteins   |
| Description:                          | Recombinant protein of human ubiquitin specific peptidase 20 (USP20), transcript variant 1, 100 µg |
| Species:                              | Human  |
| Expression Host:                      | HEK293T  |
| Expression cDNA Clone or AA Sequence: | >RC208051 protein sequence<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)                       |

MGDSRDLCPHLDSIGEVTKEDLLLKSKGTCQSCGVTGPNLWACLQVACPYVGCGESFADHSTIHAQAKKH  
NLTVNLTTFRLWCYACEKEVFLEQRLAAPLLGSSSKFSEQDSPPPSHPLKAVPIA VADEGESESEDDDLK  
PRGLTGMKNLGNSCYMNAALQALSNCPLTQFFLECGGLVRTDKK PALCKSYQKLVSEVWHKRP SYVWP  
TSLSHGIKLVNPMFRGYAQDQTQEFRLCLMDQLHEELKEPVVATVALTEARSDSDSDTDEKREGDRSPSE  
DEFLSCDSSDRGEGDGQGRGGGSSQAETELLIPDEAGRAISEKERMKDRKFSWGQQRTNSEQVDEADV  
DTAMAALDQPAAEQPPSPRSSPCRTPEPDNDAHLRSSSRPCSPVHHHEGHAKLSSSPPRASPV RMAPS Y  
VLKKAQVLSAGSRRRKEQRYRSVISDIFDGSILSLVQCLTCDRVSTTVETFDLSLPIPGKEDLAKLHSA  
IYQNPAPKPGACGDSYAAQGWLAFIVEYIRRFVVSCTPSWFWGPPVVTLEDCLAFFAADELKGDNMYSC E  
RCKKL RNVKVKYCKVLR LPEILCIHLKRFRHEVMYSFKINSHVSFPLEGLDLRPF LAKECTSQITTYD LLS  
VICHHG TAGSGHYIAYCQNVINGQWYEFDDQYVTEVHETV VQNAEGYVLFYRKSSEAMRERQV VSLAA  
MREPSLLRFYVSREWL NKFNTFAEPGPITNQTFLCSHG GIPPHKYHYIDDLVILPQNVWEHLYNRF GGG  
PAVNHLYVCSICQVEIEALAKRRRIEIDTFIKLNKAFQAEESPGVIYCISMQWFREWEAFVKGKDNEPPG  
PIDNSRIAQVKGSGHVQLKQGADY GQISEETWTYLNSLYGGGPEIAIRQSVAQPLGPENLHG EQKIEAET  
RAV

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

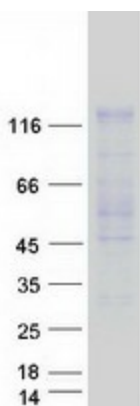
|                |   |
|----------------|---|
| Tag:           | C-Myc/DDK   |
| Predicted MW:  | 101.7 kDa   |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method          |
| Purity:        | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer:        | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol        |
| Bioactivity:   | Pull-down assay (PMID: <a href="#">26839314</a> )           |



[View online >](#)

|                          |  |
|--------------------------|--|
| <b>Preparation:</b>      | Recombinant protein 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_006667</a>  |
| <b>Locus ID:</b>         | 10868  |
| <b>UniProt ID:</b>       | <a href="#">Q9Y2K6</a>   |
| <b>RefSeq Size:</b>      | 4538   |
| <b>Cytogenetics:</b>     | 9q34.11  |
| <b>RefSeq ORF:</b>       | 2739   |
| <b>Synonyms:</b>         | hVDU2; LSFR3A; VDU2  |
| <b>Summary:</b>          | 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-1alpha 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] |
| <b>Protein Families:</b> | 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]).