

Product datasheet for SC115950

USP20 (NM_006676) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP20 (NM_006676) Human Untagged Clone
Tag:	Tag Free
Symbol:	USP20
Synonyms:	hVDU2; LSF3A; VDU2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_006676 edited
TTCGGCACGAGGGTTGCGAGTGCAGGCTCCTTGCCAGAGGCCTCCACTCACTCCAGACCC
CTATAGCCCGTCGCTGTCACTGTCAACAAAGGATGCGAATGCTGGCCGCTTCTGTGGG
CTTCGTGTCAACCCAGAGGTGAGCCAGGCCAGGATGGGGACTCCAGGGACCTTTGCCCT
CACCTTGACTCCATAGGAGAGGTGACCAAAGAGGACTTGCTGCTCAAATCTAAGGGAACC
TGTCACTGTGGGGTACCGGACAAACCTATGGCCTGTCTGCAGGTTGCCTGCCCC
TATGTTGGCTGCGGAGAATCCTTCGCTGACCACAGCACCATTTCATGCACAGGCAAAAAAG
CACAACCTGACCGTGAACCTGACCACGTTCCGACTGTGGTGTACGCCTGTGAGAAGGAG
GTATTCTGGAGCAGCGGCTGGCAGCCCTCTGCTGGGCTCCTTCCAAGTTCTCTGAA
CAGGACTCCCCGCCACCCTCCACCCTCTGAAAGCTGTTCTATTGCTGTGGCTGATGAA
GGAGAGTCTGAGTCAGAGGATGATGACCTGAAACCTCGAGGCCTCACGGGCATGAAGAAC
CTCGGGAACCTCTGCTACATGAACGCCGCCCTGCAGGCCCTGTCCAATTGCCCGCCGCTG
ACTCAGTTCTTCTTGAGTGTGGCGGCCTGGTGCACAGATAAGAAGCCAGCCCTGTGC
AAGAGCTACCAGAAGCTGGTCTCTGAGGTCTGGCATAAGAAACGGCCAAGCTACGTGGTC
CCCACAGTCTGTCTCATGGGATCAAGTTGGTCAACCAATGTTCCGAGGCTATGCCAG
CAGGACACCCAAGAGTTCCTTCGCTGCCTGATGGACCAGCTGCACGAGGAGCTCAAGGAG
CCGGTGGTGGCCACGGTGGCGTACGGAGGCTCGGGACTCAGATTTCAGTGACACGGAT
GAGAAACGGGAGGGTGACCGGAGCCCATCAGAAGATGAGTCTTGTCTGTGACTCGAGC
AGTGACCGGGGTGAGGGTGACGGGACGGGCGTGGCGGGGACAGTCCGAGGCCGAGACG
GAGCTGCTGATCCAGATGAGGCGGGCCGAGCCATCTCTGAGAAGGAGCGGATGAAGGAC
CGCAAGTTCTCCTGGGGCCAGCAGCGTACAAACTCGGAGCAAGTGGACGAGGACGCTGAT
GTGGACTGCCATGGTGCCTTGACCAGCCCGGAGGCCAGCCCCCGTCAACACGG
TCCTCCAGCCCTGCCGACGCCAGAGCCGACAATGATGCTCACCTACGCAGCTCCTCT
CGCCCCCTGCAGCCCCGTCCACCACCAGAGGGCCATGCCAAGCTGTCTAGCAGCCCCCT
CGTGCAAGCCCCGTGAGGATGGCACCGTCTACGTGCTCAAGAAAGCCAGGTATTGAGT
GCTGGCAGCCGGAGGCGAAGGAGCAGCGTACCGCAGCGTCATCTCAGACATCTTTGAC
GGCTCCATTCTCAGCCTCGTGCAGTGTCTCACCTGTGACCGGGTATCCACCACAGTGAA



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ACGTTCCAGGACTTATCACTGCCATTCTGAAAGGAGGACCTGGCCAAGCTCCATTCA
 GCCATCTACCAGAATGTGCCGGCCAAGCCAGGCGCCTGTGGGGACAGCTATGCCGCCAG
 GGCTGGCTGGCCTTCAATTGTGGAGTACATCCGACGGTTTGTGGTATCCTGTACCCCCAGC
 TGGTTTTGGGGCCTGTCGTACCCCTGGAAGACTGCCTTGTGCCTTCTTTGCCGCTGAT
 GAGTTAAAGGGTGACAACATGTACAGCTGTGAGCGGTGAAGAAGCTGCGGAACGGAGTG
 AAGTACTGCAAAGTCTCGGTTGCCCGAGATCCTGTGCATTACCTAAAGCGCTTTCGG
 CACGAGGTGATGACTCATTCAAGATCAACAGCCACGTCTCCTTCCCCCTCGAGGGGCTC
 GACCTGCCGCCCTTCTTGCCAAGGAGTGACATCCCAGATCACCACTACGACCTCCTC
 TCGGTATCTGCCACCACGGCACGGCAGGACAGTGGGCACTACATCGCCTACTGCCAGAAC
 GTGATCAATGGGCAGTGGTACGAGTTTGTGACCAGTACGTACAGAAAGTCCACGAGACG
 GTGGTGCAGAACGCCAGGGCTACGTACTTCTACAGGAAGAGCAGCGAGGAGGCCATG
 CGGGAGCGACAGCAGGTGGTGTCCCTGGCCGCATGCGGGAGCCAGCCTGCTGCGGTTT
 TACGTGTCCCGAGTGGCTCAACAAGTTCAACACCTTCGCGGAGCCAGGCCCATCACC
 AACCGACCTTCTCTGCTCCCACGGAGGCATCCCGCCCAAAATACCACTACATCGAC
 GACCTGGTGGTATCCTGCCCGAAGCTGTGGGAGCACCTGTACAACAGATTGCGGGGT
 GGCCCCGCGTGAACCACCTGTACGTGTCTCCATCTGCCAGGTGGAGATCGAGGCACTG
 GCCAAGCGCAGGAGGATCGAGATCGACACCTTCATCAAGTTGAACAAGGCCTTCCAGGCC
 GAGGAGTCGCGGGGCGTCATCTACTGCATCAGCATGCAGTGGTCCGGGAGTGGGAGGCG
 TTCGTCAAAGGGAAGGACAACGAGCCCCCGGGCCATTGACAACAGCAGGATTGCACAG
 GTCAAAGGAAGCGGCATGTCCAGCTGAAGCAGGGAGCTGACTACGGGCAGATTTCCGGAG
 GAGACCTGGACCTACCTGAACAGCCTGTATGGAGTGGCCCCGAGATTGCCATCCGCCAG
 AGTGTGGCGCAGCCGCTGGGCCAGAGAACCTGCACGGGGAGCAGAAGATCGAAGCCGAG
 ACGCCGGCCGTGTGATCTGCTGGGCTAGTCTCCCATGTGCCCCACCCCGGAAGGCGT
 GTTTGTGCCAGAAGAGAGGGCCGGCTGCTGCAGAACCCCGCCGTGTAAGAGGCAGAAA
 AGTTGTTTTGTTTGCAGTAACGCTGCAACTAGAAAATATATGCACTTACGGCTTGTGA
 AACGACCAAGACTCTGTGACGTTAATTTGGGTCTTTGCTGCGCAGTGCCTCTGCCAGTC
 ACTGTATCGTTGTGCCCCACAACCTGCCTCTTGTAGCTCGGCCAGCTTTGTCCCT
 GGAGCCCGATGCTACCCCTGTCAGACAGAGGCTGCGGCCTG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006676 unedited
 GGGTCGTCTCCTACTTTTCGACAGGGTTGCGAGTGCATGCTTCTTGCCAGAGGTCTCCA
 CCACTCCAGACCCTATAGCCCGTCTGTCAGCTGTCAACAAAGGATGCGAATGCTGG
 CCGCTTTCTGTGGGCTTCTGTGTCACCCAGAGGTGAGCCAGGCCAGGATGGGGACTCCA
 GGGACCTTTGCCCTCACCTTGACTCCATAGGAGAGGTGACCAAAGAGGACTTGCTGCTCA
 AATCTAAGGGAACCTGTGAGTGTGGGGTACCAGGACCAAACCTATGGGCTGTCTGC
 AGGTTGCCTGCCCTATGTTGGCTGCGGAGAATCCTTCGCTGACCACAGCACCATTATG
 CACAGGCAAAAAAGCACAACCTTGACCGTGAACCTGACCACGTTCCGACTGTGGTGTACG
 CCTGTGAGAAGGAGGATTCCTGGAGCAGCGGCTGGCAGCCCTCTGCTGGGCTCCTCTT
 CCAAGTTCTCTGAACAGGACTCCCCGCCACCCTTCCACCCTCTGAAAGCTGTTCCATTG
 CTGTGGCTGATGAAGGAGAGTCTGAGTCAGAAGATGATGACCTGAAACCTCGAGGCTCA
 CGGGCATGAAGAACCTCGGGAACCTGCTCATGAACGCCGCCCTGCAAGCCCTGTTTCAT
 TGCCCCCGCTGACTCAGNTTTTCTTTGAAGTGTGGCGGGCTGGTGCACAGATTAGGA
 ACCAGCCCTGTGCAAGAAGTACCAAAAGCTGGTCTTTGAAGTCTGCCTTAAGAAACGGCC
 AAGTACGTGGTCCCCACAGTCTGTTCCAAGGGATCAAAGTTGGCAACCCCATGGTCCC
 AGGCTTTGCCCAAGAGGACCCCAAGAGTTCCTTCCCTGCCTGAAGGACCCTGCACCAG
 AACCTAAGAGCCGG

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_006676 unedited NTTTTTCTATGGACCCGCGCCGCAATCTANGATCGAGTTTTTTTTTTTTTTTTTAAC ATTTATTCTGTGTTTATTCTGACATTTTGAACACAACTAGACAGCACAGACATGGGGCC CGATCCCAGCCTGCACAGAAGCCTCTCTGCGTCGCGACAGTGCAGCGTCCGGCCTCTGGC TGCAGCGCCGGCTTTCAGAAGGCTGGGGCAATGCCAGGGGAACCCAGGCTCAGCAGGG AGGGAGCAGGATCTGGGACAGAAGATCCGAAAAGTGAGGCCTCAGGGCCTCTGCGGGACC CACCTGTGGAATTTCCACCACCACCTTCTACAAAGACTGATAGAAACAAAGACGCA GTAGTGTGGGGGTCTGGTCCCAGAGCCCTTCCCACCCACGCCCGTCTGCTTTGATC CTGATGATGGTCGCACCTCGCCCTGGCGGTTTCTCCAGGGGCTTGGTGCCTTGCTGTGC TCAGTGGCTCCCTCCACTCAGCATCCAGAGGCTGCTTCCCAGGATCCACCTGAGCGCTGC ACCCTGCACAGCCCCACATCCCTCCAGGCGGGCTCTGCACTGCTGCTGTTGGGAGGAAG GGAAAGTCTGTCTTTTAGCATCAGCTCGGGAAGCTGCCTTGCCTCAAATGGCCAAGC TGTGAGGTATCCCTGTTTCATCATCCGGTTCCTGGTGGGGGCTCAGCAAATTTCCCATG AAGATGAACTGCTGAACTTCGAGGCAAATTACAGCCAATCCAGGGGGCAGGCTCAGCAGG ACGCGGGTGTGGGGGACCAGCTGCCTCCAGAAACATCCCCCACTGGCAGAAATCCAACCT CCTCCTGGTGTCCAATCAGCAATGAGTCCAGAGTCTTCACTGTCAGGAGAAGTCTGA GAGCAGCCCGNACTTCAGAGCCTTCTGTTGACGCCAGAN
Restriction Sites:	NotI-NotI
ACCN:	NM_006676
Insert Size:	4880 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_006676.4 , NP_006667.2
RefSeq Size:	4511 bp

RefSeq ORF:	2742 bp
Locus ID:	10868
UniProt ID:	Q9Y2K6
Cytogenetics:	9q34.11
Domains:	UCH, zf-UBP, DUSP
Protein Families:	Druggable Genome, Protease

Gene 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-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]
Transcript Variant: This variant (1) represents the longest transcript. All three transcript variants encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The extent of this transcript is supported by transcript alignments and orthologous data.