

Product datasheet for **SC328028**

USP20 (NM_001110303) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP20 (NM_001110303) Human Untagged Clone
Tag:	Tag Free
Symbol:	USP20
Synonyms:	hVDU2; LSFR3A; VDU2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001110303, the custom clone sequence may differ by one or more nucleotides

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ATGGGGGACTCCAGGGACCTTTGCCCTCACCTTGACTCCATAGGAGAGGTGACCAAAGAG
GACTTGCTGCTCAAATCTAAGGGAACCTGTCAGTCGTGTGGGGTACCCGGACCAAACCTA
TGGGCCTGTCTGCAGGTTGCCTGCCCTATGTTGGCTGCGGAGAATCCTTTGCTGACCAC
AGCACCATTTCATGCACAGGCAAAAAAGCACAACCTTGACCGTGAACCTGACCACGTTCCGA
CTGTGGTGTACGCCTGTGAGAAGGAGGTATTCTTGAGCAGCGGCTGGCAGCCCCTCTG
CTGGGCTCCTCTTCCAAGTTCTCTGAACAGGACTCCCGCCACCCTCCCACCCTCTGAAA
GCTGTTCTATTGCTGTGGCTGATGAAGGAGAGTCTGAGTCAGAGGACGATGACCTGAAA
CCTCGAGGCCCTACGGGCATGAAGAACCTCGGGAACCTCCTGCTACATGAACGCTGCCCTG
CAGGCCCTGTCCAATTGCCCGCCGCTGACTCAGTCTTCTTGGAGTGTGGCGGCCCTGGT
CGCACAGATAAGAAGCCAGCCCTGTGCAAGAGCTACCAGAAGCTGGTCTCTGAGGTCTGG
CATAAGAAACGGCCAAGCTACGTGGTCCCACCAGTCTGTCTCATGGGATCAAGTTGGTC
AACCCAATGTTCCGAGGCTATGCCCAGCAGGACACCCAAGAGTTCCTTCGCTGCCTGATG
GACCAGCTGCACGAGGAGCTCAAGGAGCCGGTGGTGGCCACGGTGGCGCTGACGGAGGCT
CGGGACTCAGATTCGAGTGACACGGATGAGAAACGGGAGGGTGACCGGAGCCCATCAGAA
GATGAGTCTTGTCTGTGACTCGAGCAGTGACCGGGGTGAGGGTGACGGGCAGGGGCGT
GGCGGGGGCAGCTCGCAGGCCGAGACGGAGCTGCTGATCCCAGATGAGGCGGGCCGAGCC
ATCTCTGAGAAGGAGCGGATGAAGGACCGAAGTCTCCTGGGGCCAGCAGCGTACAAAC
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CCCGGGAGGCCAGCCCCGTACCACGGTCTCCAGCCCCTGCCGGACGCCAGAGCCG
GACAATGATGCTACCTACGACGCTCCTCTCGCCCCTGCAGCCCCGTCCACCACCAGGAG
GGCCATGCCAAGCTGTCTAGCAGCCCCCTCGTGAAGCCCCGTGAGGATGGCACCGTCTG
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CGACGGTTTGTGGTATCCTGTACCCCCAGCTGGTTTTGGGGCCCTGTCGTCAACCCTGGAA
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GAGCGGTGTAAGAAGCTGCGGAACGGAGTGAAGTACTGCAAAGTCTGCGGTTGCCCGAG
ATCCTGTGCATTACCTAAAGCGCTTTCGGCAGGAGTGTACTCATTCAAGATCAAC
AGCCACGTCTCCTTCCCCCTCGAGGGGCTCGACCTGCGCCCTTCTTGGCCAAGGAGTGC
ACATCCCAGATCACCACTACGACCTCCTCTCGGTCACTGCCACCACGGCACGGCAGGC
AGTGGGCACTACATCGCCTACTGCCAGAACGTGATCAATGGGCAGTGGTACGAGTTTGT
GACCAGTACGTACAGAAGTCCACGAGACGGTGGTGCAGAACGCCGAGGGCTACGTACTC
TTCTACAGGAAGAGCAGCGAGGAGGCCATGCGGGAGCGACAGCAGGTGGTGTCCCTGGCC
GCCATGCGGGAGCCAGCCCTGCTGCGGTTCTACGTGTCCCGCAGTGGCTCAACAAGTTC
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ATCCCGCCCCACAAATACCACTACATCGACGACCTGGTGGTCACTCTGCCCCAGAACGTC
TGGGAGCACCTGTACAACAGATTGCGGGGTGGCCCCGCCGTGAACCACCTGTACGTGTGC
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TTCATCAAGTTGAACAAGGCCTTCCAGGCCGAGGAGTCCCGGGCGTCACTACTGCATC
AGCATGCAGTGGTTCGGGAGTGGGAGGCGTTCGTCAAGGGGAAGGACAACGAGCCCCC
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CAGGGAGCTGACTACGGCAGATTCGGAGGAGACCTGGACCTACCTGAACAGCCTGTAT
GGAGGTGGCCCCGAGATTGCCATCCGCCAGAGTGTGGCGCAGCCGCTGGGCCAGAGAAC
CTGCACGGGAGCAGAAGATCGAAGCCGAGACGCGGGCCCTG

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Restriction Sites: Please inquire
ACCN: NM_001110303

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001110303.2, NP_001103773.2</u>
RefSeq Size:	4334 bp
RefSeq ORF:	2745 bp
Locus ID:	10868
UniProt ID:	<u>Q9Y2K6</u>
Cytogenetics:	9q34.11
Protein Families:	Druggable Genome, Protease
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) has a different 3' non-coding, terminal exon, compared to transcript variant 1. 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.</p>