

Product datasheet for **SC328025**

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; LSFR3A; VDU2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_006676, the custom clone sequence may differ by one or more nucleotides

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ATGGGGGACTCCAGGGACCTTTGCCCTCACCTTGACTCCATAGGAGAGGTGACCAAAGAGGACTTGTCTGC
TCAAATCTAAGGGAACCTGTCAGTCGTGTGGGGTACCCGGACCAAACCTATGGCCCTGTCTGCAGGTTGC
CTGCCCTATGTTGGCTGCGGAGAATCCTTTGCTGACCACAGCACCATTATGCACAGGCAAAAAAGCAC
AACTTGACCGTGAACCTGACCACGTTCCGACTGTGGTGTACGCCTGTGAGAAGGAGGTATTCTGGAGC
AGCGGCTGGCAGCCCCTCTGCTGGGCTCCTCTTCCAAGTTCTCTGAACAGGACTCCCCGCCACCCTCCCA
CCCTCTGAAAGCTGTTTCATTGCTGTGGCTGATGAAGGAGAGTCTGAGTCAGAGGACGATGACCTGAAA
CCTCGAGGCCCTCACGGGCATGAAGAACCTCGGGAACCTCTGCTACATGAACGCTGCCCTGCAGGCCCTGT
CCAATTGCCCGCCGCTGACTCAGTTCTTCTTGGAGTGTGGCGGCCTGGTGCACAGATAAGAAGCCAGC
CCTGTGCAAGAGCTACCAGAAGCTGGTCTCTGAGGTCTGGCATAAGAAACGGCCAAGCTACGTGGTCCCC
ACCAGTCTGTCTCATGGGATCAAGTTGGTCAACCCAATGTTCCGAGGCTATGCCAGCAGGACACCCAAG
AGTTCTTTCGCTGCTGATGGACCAGCTGCACGAGGAGCTCAAGGAGCCGGTGGTGGCCACGGTGGCGCT
GACGGAGGCTCGGGACTCAGATTCGAGTGACACGGATGAGAAACGGGAGGGTACCGGAGCCCATCAGAA
GATGAGTCTTGTCTGTGACTCGAGCAGTGACCGGGGTGAGGGTACCGGCAGGGGCTGGCGGGGGCA
GCTCGCAGGCCGAGACGGAGCTGCTGATCCCAGATGAGGCGGGCCGAGCCATCTCTGAGAAGGAGCGGAT
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GACACTGCCATGGCTGCCCTTGACGACCAGCCCGGAGGCCAGCCCCCGTACCACGGTCTCCAGCC
CCTGCCGACGCCAGAGCCGACAATGATGCTCACCTACGAGCTCCTCTCGCCCTGCAGCCCCGTCCA
CCACCAGAGGGCCATGCCAAGCTGTCTAGCAGCCCCCTCGTCAAGCCCCGTGAGGATGGCACCCTCG
TACGTGCTCAAGAAAGCCAGGTATTGAGTGTGGCAGCCGGAGGCGGAAGGAGCAGCTACCCGCTCG
TCATCTCAGACATCTTTGACGGCTCCATTCTCAGCCTTGTGCAAGTGTCTACCTGTGACCGGGTATCCAC
CACAGTGGAAACGTTCCAGGACTTACTGCCCATTCTGAAAAGGAGGACCTGGCCAAGCTCCATTCA
GCCATCTACCAGAATGTGCCGGCAAGCCAGGCGCCTGTGGGACAGCTATGCCGCCAGGGCTGGCTGG
CCTTATTGTGGAGTACATCCGACGTTTGTGGTATCCTGTACCCCCAGCTGGTTTTGGGGCCTGTCTGT
CACCTGGAAGACTGCCTTGCTGCCTTCTTGGCGTGTGAGTTAAAGGGTGACAACATGTACAGCTGT
GAGCGGTGTAAGAAGCTGCGGAACGGAGTGAAGTACTGCAAAGTCTGCGGTTGCCCGAGATCCTGTGCA
TTCACCTAAAGCGCTTTCCGACAGAGTGTACTCATTCAAGATCAACAGCCAGTCTCCTTCCCCT
CGAGGGGCTGCACCTGCCCCCTCCTTGCCAAGGAGTGCACATCCAGATCACCACCTACGACCTCCTC
TCGGTCTCTGCCACCACGGCACGGCAGGACAGTGGGCACTACATCGCCTACTGCCAGAAGCTGATCAATG
GGCAGTGGTACGAGTTTGTGACCAAGTACGTCACAGAAGTCCACGAGACGGTGGTGCAGAACGCCGAGGG
CTACGTACTCTTCTACAGGAAGAGCAGCGAGGAGGCCATGCGGGAGCGACAGCAGGTGGTGTCCCTGGCC
GCCATGCGGGAGCCCAGCCTGCTGCGGTTTACGTGTCCCGCAGTGGCTCAACAAGTTCAACACCTTCG
CGGAGCCAGGCCCATCACCAACCAGACCTTCTCTGCTCCCACGGAGGCATCCCCCCCCACAAATACCA
CTACATCGACGACCTGGTGGTCACTGCCCCAGAACGCTGGGAGCACCTGTACAACAGATTCGGGGGT
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GGAGGATCGAGATCGACACCTTCAAGTTGAACAAGGCCTTCCAGGCCGAGGATCGCCGGGCTCAT
CTACTGCATCAGCATGCAAGTGGTCCGGGAGTGGGAGGCGTTTCGTCAGGGGAAGGACAACGAGCCCCC
GGGCCATTGACAACAGCAGGATTGCACAGGTCAAAGGAAGCGGCATGTCCAGCTGAAGCAGGGAGCTG
ACTACGGGAGATTTCCGAGGAGACCTGGACCTACCTGAACAGCCTGTATGGAGGTGGCCCCGAGATTGC
CATCCGCCAGAGTGTGGCGCAGCCGCTGGGCCAGAGAACCTGCACGGGAGCAGAAGATCGAAGCCGAG
ACGCGGGCCGTGTA
    
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Restriction Sites: Please inquire

ACCN: NM_006676

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>
OTI Annotation:	<p>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.</p>
Components:	<p>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).</p>
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_006676.6 , NP_006667.3
RefSeq Size:	4538 bp
RefSeq ORF:	2745 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-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] 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.