

## Product datasheet for **SC214247**

### USP20 (NM\_001008563) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	USP20 (NM_001008563) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	USP20
Synonyms:	hVDU2; LSFR3A; VDU2
ACCN:	NM_001008563
Insert Size:	1408 bp



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**Insert Sequence:** >SC214247 3'UTR clone of NM\_001008563  
 The sequence shown below is from the reference sequence of NM\_001008563. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
AAGATCGAAGCCGAGACGCGGGCGTGATCTGCTGGGCTAGTCTCCCATGTGCCACCCCGCGGA
AGGCGTGTGGTGTGCCAGAGAGAGGCGGGCTGCTGCAGAACCCCGCCGTGTAAGAGGAGAAAAGT
TGGTTTGGTTTGCAGTAACGCTGCAACTAGAAAATATATGCACTTCAGGCTTGTGAAACGACCAAGAC
TCTGTGACGTTAATTTGGGTCTTTGTCCTGGCAGTGCCTCTGCCAGTCACTGTATCGTTGTGCCCC
ACAACTGTCTTGTAGCTCGGCCAGCTTTGTCCCTGGAGCCCGATGCTACCCCTGTGAGACAGAG
GCTGCGGCTGGCCAGAGTCAGGGAGTAGCTGCTGCTTACGGCGTCTCCACTGTGCGATTGGCCCGG
AGCCCCGAAGACTCGGAGGGAGCTGCTCAGGGCCGGTGAAGCCAGCCAGAAGCCCTGGCCAGTGAGGAG
CTCACAGTCCCTCCCTGGTGGTCCGCGCCACCTCTGCATCTCCTGGGCGTCACCAGGAAGGCTCTGAA
GTCCCGGCTGCTCTCAGCACTTCTCCTCAGACTGAAGACTCTGGACTATTGCTGATTGGAACACCA
GGAGGAGTTGGATTTCTGCCAGTGGGGATGTTTCTGGAGGCAGCTGGTCCCCCACACCCGCTCTGC
TGAGCCTGCCCTGGATTGGCTGTAATTTGCCTCGAAGTTCAGCAGTTCATCTTCATGGGAAATTTGC
TGAGCCCCCACCAGGGAACCGGATGATGAAACAGGGATACCTCACAGCTTGGCCATTTGAGGCAAAGGC
AGCTTCCCAGCTGATGCTAAAGAAGACAGACTTCCCTTCTCCAGCAGCAGCAGTGCAGAGCCAC
CTGGAGGGATGTGGGGCTGTGCAGGGTGCAGCGCTCAGTGGATCCTGGGAAGCAGCCTCTGGATGCT
GAGTGGAGGGAGCCACTGAGCACAGCAAGGCACCAAGCCCTGGAGAAACCCAGGGCGAGGTGCGA
CCATCATCAGGATCAAAGCAGACGGGGCTGGTGGGAAAGGGCTCTGGGACCAGACCCCCACACTA
CTGCGTCTTTGTTTCTATCAGTCTTTGTAGAAGCAGGTGGTGGGAAATTCAGCAGGTGGGTCCCGC
AGAGGCCCTGAGGCCTCACTTTTCGGATCTTGTGCCAGATCCTGCTCCCTCCCTGCTGAGCCTGGGG
TTCCCTGGCATTGGCCAGCCTTCTGAAAGCCGGCGTGCAGCCAGAGGCCGACGCTGCACTGTGCG
CGACGCAGAGAGGCTTCTGTGAGGCTGGGATCGGGCCCATGTCTGTGCTGTCTAGTTTGTGTTCAAA
ATGTCAGAATAAACACAGAATAAATGTT
ACGCGTAAGCGCCCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
  
```

**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_001008563.5](#)

**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]

**Locus ID:**

10868

**MW:**

51