

Product datasheet for SC111053

USP1 (NM_003368) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP1 (NM_003368) Human Untagged Clone
Tag:	Tag Free
Symbol:	USP1
Synonyms:	UBP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_003368 edited
 CCTCGGTGGCGGAGTGCATAAGACCCTAGCGGTTTCAGGCGTTCGGCGAGCGGGGCCGCTG
 CTTGTTGCGCTCCTGGCTCTCCCGGGGCGCAGATGGGCGCGCTCCCGGGATGTAG
 TTGGTGTGGTGCAAGACGGGAGCGAGCGCGGTTCGGGTTCCCGCTCTGGGAGCGGAT
 GGTCACCTCCCCCGGGGAGGGCGAGCCGACCAGATTTTCTGGGGCCGGGGACCCGGCG
 GGCTCGGGGACGGGACTCACCTGTCGCACCCACTCATTGGGTTGGACTTGCCGGCGT
 CACCGCCGCGGACTTCGCTTTGGGCCATGACCAGATATAATTGGTGATTACAACCTTCT
 CTATAAATTAACCTTTGACTCCTTTGGGATTTGAAGAAAAAATGCCTGGTGCATACC
 TAGTGAAGTAATGGACTTTCAAGAGGTAGCCCTTCAAAGAAAAACAGACTTTCTTAAA
 GTTTTTTCAGAAAAAGGAACTAAGAGAGCTTTGGATTTACAGATTCTCAAGAAATGA
 AGAAAAAGCTTGAATATAGAGCATCTGAAATTGATCAAGTTGTTCTGCAGCACAGTC
 TTCACCTATAAACTGTGAGAAGAGAGAAAACTTGTACCATTTGTGGGACTGAATAATCT
 CGGCAATACTTGCTATCTTAATAGTATACTTCAGGTATTATTTTTGTCCCGGTTTTAA
 ATCTGGAGTAAAGCACTATTTAATATTATTTCAAGGAAGAAAGAAAGCTCTAAAGGATGA
 AGCCAATCAAAAAGACAAGGAAATTGCAAAGAAGATTCTTTGGCAAGTTATGAATTGAT
 ATGCAGTTTACAGTCCTTAATCATTTCGGTTGAACAGTCCAGGCTAGTTTTCTCTTAA
 TCCAGAGAAATATACTGATGAACCTGCCACTCAGCCAAGGCGACTGCTTAACACTGAG
 GGAATCAACCCTATGTATGAAGGATATCTACAGCATGATGCACAGGAAGTATTACAATG
 TATTTTGGGAAACATTTCAAGAAACATGCCAATCCTAAAAA : GAAGAAGTAAAAATG
 TGGCAGAATTACCTACTAAGGTAGAAGAAATACCTCATCCGAAAGAGGAAATGAATGGTA
 TTAACAGCATAGAGATGGACAGTATGAGGCATTCTGAAGACTTTAAAGAGAACTCCCAA
 AAGGAAATGGGAAAAGAAAAAGTGAACACTGAATTTGGTAAACATGAAGAAAAAGTTAAAT
 TATCCAAGGAACACCAGTCATTGGAAGAGAACCAGAGACAACTAGATCAAAAAGAAAAG
 CTACAAGTGATACATTAGAGAGTCTCCTAAAATAATTCCTCAAGTATATTTCTGAAAATG
 AGAGTCCAAGACCCTCACAAAAGAAATCAAGAGTAAAAATAAATGGTTAAAGTCTGCAA
 CTAAGCAACCCAGCATTCTTTCTAAATTTGTAGTCTGGGAAAAATAACAACAAACCAAG
 GAGTCAAAGGACAATCTAAAGAAATGAATGTGATCCTGAAGAGGACTTGGGGAAGTGTG



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AAAGTGATAACACAACACTAATGGTTGTGGACTTGAATCTCCAGGAAATACTGTTACACCTG
 TAAATGTTAATGAAGTTAAACCCATAAACAAAGGTGAAGAACAATTTGGTTTTGAGCTAG
 TGGAGAAATTTTCAAGGTCAGCTGGTATTAAGGACGCGTTGCTTGGAAATGTGAAAGTT
 TAACAGAAAGAAGAGAAGATTTTCAAGACATCAGTGTGCCAGTACAAGAAGATGAGCTTT
 CCAAAGTAGAGGAGAGTTCTGAAATTTCTCCAGAGCCAAAAACAGAAATGAAGACCCTGA
 GATGGGCAATTTACAAATTTGCTTCAGTAGAAAAGATTGTAGGAGAAGATAAATATTTCT
 GTGAAAACCTGCCATCATTATACTGAAGCTGAACGAAGTCTTTTGTGGACAAAATGCCTG
 AAGTTATAACTATTCATTTGAAGTGCTTTGCTGCTAGTGGTTTGGAGTTTGATTGTTATG
 GTGGTGGACTTTCCAAGATCAACACTCCTTTATTGACACCTCTTAAATTGCACTAGAAG
 AATGGAGCACAAGCCAACTAACGACAGCTATGGATTATTTGCGGTTGTGATGCATAGTG
 GCATTACAATTAGTAGTGGGCATTACACTGCTTCTGTTAAAGTCACTGACCTTAACAGTT
 TAGAACTAGATAAAGGAAATTTTGTGGTTGACCAATGTGTGAAATAGGTAAAGCCAGAAC
 CATTGAATGAGGAGGAAGCAAGGGGTGTGGTTGAGAATTATAATGATGAAGAAGTGCAA
 TTAGAGTTGGTGGAAATACACAGCCAAGTAAAGTTTTGAACAAAAAAAATGTAGAAGCTA
 TTGGACTTCTTGGAGGACAAAAGAGCAAAGCAGATTATGAGCTATACAACAAAGCCTCTA
 ATCCTGATAAGGTTGCTAGTACAGCGTTTGTCTGAAAATAGAAAATCTGAGACTAGTGATA
 CTAAGTGGACCCATGAATCTGATAGAAACAAGGAATCCAGTGACCAAAACAGGCATTAATA
 TTAGTGGATTTGAGAACAATAATTCATACGTAGTGCAAAGCTTAAAGGAGTATGAGGGGA
 AGTGGTTGCTTTTTGATGATTCTGAAGTCAAAGTACTGAAGAGAAGGACTTTCTGAATT
 CTCTTTCCCTTCTACATCTCCTACTTCTACTCCTTACTTGCTATTTTATAAGAAATTA
 AGAGTGAGTGTATTTTCTTGTGTATATATTAACACACCCATACAAACATTGGTAAAGT
 TGATTACATCAAAGAATCTTTAGCTTATCTTTTGAAGCTACTGGATATTATTGGTCTCTC
 TAGGTTTTTATATAAATAGTGAATTTGAATTAAGTAAACCATGTTAATTTTTAGAACT
 CATTTTCTCAGTAGAGACTAGTGATGCATTAGCTTCTGGGAACAAACTTGATATCGGTTCT
 TTAATTAATTAATCCAAAACGGAGGCATTTAAACACTTGGATTTACACCAGTCTTTTGTG
 TTTGCTTTTTTAAATAAAGTGCTCGTATTTGTATTCTCCATATTTTGGAGTAATTATCTA
 CATGATGTTTATAGTTCTGTGGTTTTTACCCCAAGAAGCAGAATCTCATTGAGTACATT
 TAGTTTTATAAGAGTCATGAAGCTAAATCCTTGGGCTATGTCAGAGGCACAAAGTCTAGA
 ATGTGTGATTACCAATGGTGTATGTACATTTTGTGCCTTGATCACTTAGAAGTGTCTC
 AGAAAACCTGGACAGTTCGCTTCTACACAAGAATTTTATATGATTTTATGAAGATGATTC
 TGTACCCTAGTATATCTTTTGGGCATGGACTAATTTGTATCTGTTAACTCATATTCTG
 CACGATCTGTATATAGTACATCAAACCTTAGAGGTGTGACCTTAAATTTAACTTTTTTTAA
 AACTGGGAGGTCAATAAATTTAAACTGCTTAACTATGAAAAAAAAAAAAAAAAA

Restriction Sites:

Please inquire

ACCN:

NM_003368

Insert Size:

3500 bp

OTI Disclaimer: 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.

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](#)

OTI Annotation: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_003368.4.

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:

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_003368.4](#), [NP_003359.3](#)

RefSeq Size: 3949 bp

RefSeq ORF: 2358 bp

Locus ID: 7398

UniProt ID: [O94782](#)

Cytogenetics: 1p31.3

Domains: UCH

Protein Families: Protease

Gene Summary: This gene encodes a member of the ubiquitin-specific processing (UBP) family of proteases that is a deubiquitinating enzyme (DUB) with His and Cys domains. This protein is located in the cytoplasm and cleaves the ubiquitin moiety from ubiquitin-fused precursors and ubiquitylated proteins. The protein specifically deubiquitinates a protein in the Fanconi anemia (FA) DNA repair pathway. Alternate transcriptional splice variants have been characterized. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2 and 3 encode the same protein.