

Product datasheet for **SC116024**

USP3 (NM_006537) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP3 (NM_006537) Human Untagged Clone
Tag:	Tag Free
Symbol:	USP3
Synonyms:	SIH003; UBP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_006537 edited
 TCCTCCGCCCCACCTCGCCGGTCTGGAGCCGAGTCTCCAGCTGCCCTCCTCGTG
 GCCATGGAGTGTCCACACCTGAGCTCCAGCGTCTGCATTGCTCCGGACTCAGCCAAGTTC
 CCCAACGGCTCCCCGTCCTGGTGTGCAGCGTGTGCCGGTCCAACAAAAGCCCTTGG
 GTCTGTTTGACTTGTTC AAGTGTCCACTGTGGAAGGTATGTGAATGGCCATGCAAAAAA
 CATTATGAAGATGCACAAGTACCTTTAACCAACCATAAGAAATCAGAAAAGCAAGATAAA
 GTTCAGCACACAGTATGTATGGATTGCAGTAGCTACAGTACATACTGTTATCGCTGTGAT
 GATTTTGTGGTTAATGACACCAAGCTGGGACTGGTACAGAAAAGTACAGAGAACACTTACAG
 AACTTGGAAAACCTCAGCTTTCACAGCTGACAGGCATAAGAAAAGAAAACCTTTTGGAAAAC
 TCAACACTAAACAGCAAGTTATTTAAAAGTAAATGGAAGCACCCTGCCATTTGTGCCACA
 GGCCTTCGGAATTTGGGGAACACATGTTTCATGAATGCCATCCTTCAGTCACTCAGTAAC
 ATTGAGCAGTTTTGCTGTTATTTCAAAGAAGTCCCGCCGTGGAGTTAAGGAATGGGAAA
 ACAGCAGGAAGGCGGACATACCACACCAGGAGCCAAGGGGATAACAATGTGTCTTTGGTA
 GAAGAGTTTAGAAAGACTCTGTGCTTTATGGCAAGGCAGCCAGACTGCATTTAGCCCA
 GAGTCCTATTTTATGTTGTTTGAAGATTATGCCAACTTTAGGGGCTATCAACAGCAG
 GACGCCATGAATTCATGCGCTACCTTTTGGACCCTACACTTGAAGCTTCAGGCGGT
 TTCAACGGTGTTCCTCGCTCAGCAATTCTGCAGGAGAATTCTACTCTGTCTGCAAGTAAC
 AAGTGTGCATAAATGGAGCATCTACTGTTGTCACGGCTATATTCGGAGGCATTCTCAA
 AATGAGGTTAACTGCCTCATATGTGGGACAGAATCTAGAAAAGTTTGATCCATTCTAGAC
 CTTTCATTAGATATTC AAGTCAAGTTCAGAAAGTAAAGCGCTCTAAGAATCAAGAAAATGGA
 CCAGTTTGTTCGTTACGAGATTGCTTCGCAAGTTTACCGACTTAGAAGAACTTGATGAG
 ACAGAGTTATATATGTGCCATAAATGCAAAAAGAAACAAAAGTCCACAAAAAAGTTTTGG
 ATTCAAAAACTACCCAAGGTGCTATGCTTACATTTGAAAAGATTTTATTGGACAGCATAT
 TTAAGAAAATAAAGTTGATACATACGTAGAATTTCCACTGAGAGGCCTAGACATGAAATGC
 TACTTACTAGAGCCTGAGAACAGTGGCCCGGAGAGCTGCCTGTATGACCTCGCCGCTGTG
 GTGGTGCACCATGGTTCCGGGGTGGTCTGGACATTACACAGCATACGCAACTCACGAA
 GGCCGCTGGTTCCACTTCAATGACAGTACTGTAACACTGACTGACGAGGAGACTGTGGT
 AAGGCGAAGGCCTACATCCTTTTCTACGTGGAACACCAGGCCAAAGCTGGATCGGATAAA
 CTTTAATACCTCCTCAAATCATCATTACCAACCATAACCAGAGAAACATTTCCAGTTTT
 CCACAAAATACTTGATACAAGATTTAATTTTATTATGCACTTTTCAATTTCTATTTTGA
 TTTAGTTTTGCAATGGTAGTGACTTACTGAACATGGGCACCAACTAATTTTG

5' Read Nucleotide Sequence: >OriGene 5' read for NM_006537 unedited
 GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCAGACGGAGCCTCCGG
 AGTTCCTCCGCCCCACCTCGCCGGTCTGGAGCCGAGTCTCCAGCTGCCCTCCTC
 GTGGCCATGGAGTGTCCACACCTGAGCTCCAGCGTCTGCATTGCTCCGGACTCAGCCAAG
 TTCCTCCAACGGCTCCCCGTCCTGGTGTGCAGCGTGTGCCGGTCCAACAAAAGCCCT
 TGGGCTGTTTGACTTGTTC AAGTGTCCACTGTGGAAGGTATGTGAATGGCCATGCAAAA
 AACATTATGAAGATGCACAAGTACCTTTAACCAACCATAAGAAATCAGAAAAGCAAGAT
 AAAGTTCAGCACACAGTATGTATGGATTGCAGTAGCTACAGTACATACTGTTATCGCTGT
 GATGATTTTGTGGTTAATGACACCAAGCTGGGACTGGTACAGAAAAGTACAGAACTTCA
 CAGAACTTGGAAAACCTCAGCTTTCACAGCTGACAGGCATAAGAAAAGAAAACCTTTGGAA
 AACTCAACACTAAACAGCAAGTTATTTAAAAGTAAATGGAAGCACCCTGCCATTTGTGCC
 ACAGGCCCTTCGGAATTTGGGGAACACATGTTTCATGAATGCCATCCTTCAGTCACTCAGT
 AACATTGAGCAGTCTGTGTTATTTCAAAGAAGTCCCGCCGTGCAGTTAACGAATGGG
 AAAACAGCAGGTAGGCCGTCATACCACACCAGGAGCCAAGTGGATACCCTGTGTCTTTGG
 TAGAAGAGTTANCAAGACTCTGTGCTCTATGGCAAGGCAGCCAGACTGCCTTTAGCCC
 AGAGTCCTATTTTATGTTGTTTGAAGATATGCCAACTTTAGGGCCTATCACAGCAGG
 ACGCCATGAATCATGCCCTT

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_006537 unedited CGGGGGGGGCGCGGNGGGGNGNNNAGCCACCATACCCACAAAACAGCCCTCTTCGTGGGG TAACAACCTGCCACCCATACTAAATCCATTTTCATGTTAGTGCCTGCATAAAGGACAGCAGC CTTGCATACACAAGCAGTAATTACCTGGTCTACTTAATGATGCCCTTTGTTATATTTTAC AGGCACAACGAATGATTCCTCATACCCATTGTCAAATTTGTGGGCCACAAGTATTGTG CACACATGATCCTTGATTTATAGTCAACCTGATGCCATTATAGCTGTGCAAAGGCACCA AGCACCTGTGCCCTCTTACAATAAGGAACACATCCCGCTTTTCAGCATGTGAGAGGAAC AAAAGCATTGACGCAAATGTGCCTCACCACGACAACGTCAACATTACCATATACTCAAA TCGTCCAATAATACTAAGTTCTTACAAAACCTATCAAAAATTGCCTTATTACAATTAATC CACTCAATCTCAACATCTGCTGACGTTTTTTCCCCCAACAACACCCACATTCTTCTGGTG CCCATGCTCAATATAACTACCATTTTACATACCTAATTTCAAATACGAAACTGCATA CCCCCTCAGCAACTAAACCCCTACCTCCTCTCTCCGCTCGAAAACCTCCAATATGTCTTT ATGTTTTAGTTCTCCACACATGACTTTCCTTGACGCACCCAAGTCTATCTATACCCATA TTCCCACCGGTGACTCTCTCCCACTGTCTTCTTGCCTTTCCTTCTCACCCCCACCTA CTTTCTATACCATTCTTCCCACCCCTCTCTTCAACCTCCACCCCGTCTCCTTCAA TATCCCCTCATTCCCTACCACCTATTTATAACATATTCTCGTTACATAGTTACCTCTCC CACTCCCCGTAGTCACATACCCAATACCTTCCGTGCTATATGCCTCTCAGACTCTCACT ACTCTCACTTATT
Restriction Sites:	NotI-NotI
ACCN:	NM_006537
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).
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_006537.2 , NP_006528.2
RefSeq Size:	2345 bp
RefSeq ORF:	1563 bp
Locus ID:	9960
UniProt ID:	Q9Y6I4
Cytogenetics:	15q22.31
Domains:	UCH, zf-UBP
Protein Families:	Druggable Genome, Protease

Gene Summary:

Hydrolase that deubiquitinates monoubiquitinated target proteins such as histone H2A and H2B. Required for proper progression through S phase and subsequent mitotic entry. May regulate the DNA damage response (DDR) checkpoint through deubiquitination of H2A at DNA damage sites. Associates with the chromatin.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.