

## Product datasheet for **SC314496**

### USP51 (NM\_201286) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	USP51 (NM_201286) Human Untagged Clone
Tag:	Tag Free
Symbol:	USP51
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_201286, the custom clone sequence may differ by one or more nucleotides

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ATGCCCCAGGTTTCGAAAACTTCTTTGCCCTCCGGCTCTGGGGTCCGCTGGATCTCCGGAGGTGGGGGAG
GAGCCTCTCTGAGGAGCGGTTGAGAAGCGGGGAAAAATGGAGGAGCGCGGGGGGCTACGAAGGC
GTCTTCGAGACGTGAAGCCGAGGAGATGAAGCTGGAGCCATTACAAGAGCGTGAGCCCCGCGGGAGGAG
AACTTGACGTGGAGCAGCAGCGCGGCGACGAGAAGGTGCTCCCTTCAATCCCCCTTCGCTGTACAGCA
GCTCCTCGCCCGTTTGCCCGCGCCGCAAGCCCCGCCCTCGGCCCCAGCCCCGGGGCCGCTCCCGAGCCA
GCCTGGGCTCTCGGCCCCACCCCGCTCCAGCCCGGCCCGCCCGCCCGCCCGCCCGCCCGCCCGCCCGCC
GCACCGCGGCCAGGGCCTGGCGTGGATCCCGGCGCAGATCCCGGCTGGGTCCAGGCCTCAGACACGGA
GAAGCTGCTCTGGTGACCTAGACGGGTGGGGGATCCTGGCGGCTTAGGGGACTGGTTGCTGGAGGTCGA
GTTTGGTCAGGGTCCCACAGGCTGCTCTCATGTGGAGAGCTTTAAAGTAGGTAAGAAGTGGCAGAAGAAC
CTGAGGTTGATCTACCAGCGTTTCGTTTGGAGTGGGACCCAGAGACTAGGAAACGTAAGCAAAGTCAT
GCATCTGTACGTATGTAGTACCATATGAACAGACTCCACTCTGTCTCTCCTGTGTCTTTTTGGCTG
TTCACTGAGAAACATATTCACAAACATGCAGAAACAAAGCAGCACCATTAGCTGTAGACCTTTATCAT
GGGGTCATATATTGCTTCATGTGTAAGGATTATGTATATGACAAAAGACATAGAACAGATTGCCAAAGAAA
CAAAAGAAAAATTTTGAGATTATAACTTCCACCTCAACAGATGTTTCTCATCAACAGTTTATGACATC
AGGGTTTGAAGACAAGCAATCAACCTGTGAGACAAAGGAACAGGAGCCAAAATGGTGAAACCCAAGAAA
AAGAGAAGAAAAAAGTCAGTCTATACTGTAGGCCTGAGAGGGCTAATCAATCTTGGGAACACTTGTTTTA
TGAATTGTATTGTCCAGGCACTACCCATATTCCTCTACTGAAAGATTTCTTCTCTGACAAGCACAA
ATGTATAATGACAAGCCCCAGCTTGTGTCTGGTCTGTGAAATGTCTTCGTTTTTTCATGCTATGTACTCT
GGGAGCCGAACCTCACATTCCTATAAGTTACTGCTGATGATGGATCCATGCAGAACATTTAGCAG
GGTACAGGCAGCAGGATGCCATGAGTTCTTATTGCAATATTAGACGTGCTACATAGACACAGCAAAGA
TGATAGTGGTGGCAGGAGGCCAATAACCCCAACTGCTGTAAGTGCATCATAGACCAAATCTTTACAGGT
GGCCTGCAATCAGATGTCACATGTCAAGCCTGCCATAGTGTCTTACCACCATAGACCCATGCTGGGACA
TCAGTTTGGACTTGCTGGCTCTGTGCCACATTCGATTCAGAACCCAGAGAGGGCTGACAGCACAGT
GAGCAGGGATGACCACATACCAGGAATCCCCTCACTTACAGACTGTCTACAGTGGTTTACAAGGCCAGAG
CACCTAGGAAGCAGTGCCAAAATCAATGCAATAGTTGCCAAAGTACCAGGAGTCTACTAACAGCTCA
CAATGAAAAAATTACCCATTGTGGCTTGTTCATCTCAAGCGGTTTGGAGCATGTAGGCAACAGAGGCC
AAAGATTAATACCTTTATCTCTTTCCCTTGGAGCTGGACATGACTCCGTTTTTGGCCTCTACTAAAGAG
AGCAGAATGAAAGAAGGCCAGCCACCAACAGATTGTGTGCCCAATGAGAATAAGTATTCTTGTTCGAG
TGATTAATCACCATGGAACCTTGGAAAAGTGCCACTATACCAGCTTCATCCGGCAACAAAAGGACCAGTG
GTTTCAGCTGTGATGATGCCATCATCACCAAGGCTACCATTGAGGACTTACTCTACAGTGAAGGGTATTTA
CTGTTCTATCACAAACAGGGTCTAGAGAAAAGACTAG
    
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**Restriction Sites:** Please inquire

**ACCN:** NM\_201286

**Insert Size:** 3200 bp

**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:** The ORF of clone has been fully sequenced and found to be a perfect match to NM\_201286.2.

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_201286.2</a> , <a href="#">NP_958443.1</a>
<b>RefSeq Size:</b>	2490 bp
<b>RefSeq ORF:</b>	2136 bp
<b>Locus ID:</b>	158880
<b>UniProt ID:</b>	<a href="#">Q70EK9</a>
<b>Cytogenetics:</b>	Xp11.21
<b>Protein Families:</b>	Druggable Genome, Protease
<b>Gene Summary:</b>	Specifically deubiquitinates 'Lys-14' (H2AK13Ub) and 'Lys-16'(H2AK15Ub) of histone H2A regulating the DNA damage response at double-strand breaks (DSBs) (PubMed:27083998). USP51 is recruited to chromatin after DNA damage and regulates the dynamic assembly/disassembly of TP53BP1 and BRCA1. Exhibits also activity for 'Lys-27' or 'Lys-63'-linked di-ubiquitin (PubMed:27083998).[UniProtKB/Swiss-Prot Function]