

Product datasheet for **SC107387**

USP37 (NM_020935) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP37 (NM_020935) Human Untagged Clone
Tag:	Tag Free
Symbol:	USP37
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107387 sequence for NM_020935 edited (data generated by NextGen Sequencing)

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ATGTCTCCTCTGAAGATACATGGTCCTATCAGAATTCGAAGTATGCAGACTGGGATTACA
AAGTGGAAGAAGGATCCTTTGAAATTGTAGAAAAGAGAATAAAGTCAGCCTAGTAGTT
CACTACAATACTGGAGGAATCCAAGGATATTTAGCTAAGTCATAACATTAATAATGTG
GTGCTTCGACCCAGTGGAGCGAAACAAAGCCGCCTAATGTTAACTCTGCAAGATAACAGC
TTCTTGCTATTGACAAAGTACCAAGTAAGGATGCAGAGGAAATGAGGTTGTTTCTAGAT
GCAGTCCATCAAAACAGACTTCTGCAGCCATGAAACCGTCTCAGGGGTCTGGTAGTTTT
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CAGTTTAATGACCTCTCTATTGACCTTCTCGTAGGAAAAAACCACTCCCTCCTCGTTCA
ATTCAAGATTCTCTTGATCTTTTCTTTAGGGCCGAAGAACTGGAGTATTCTTGTGAGAAG

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TGTGGTGGGAAGTGTGCTCTTGT CAGGCACAAATTTAACAGGCTTCCTAGGGTCCTCATT
 CTC CATTGAAACGATATAGCTTCAATGTGGCTCTCTCGTTAACAAATAAGATTGGGCAG
 CAAGTCATCATTCCAAGATACCTGACCCCTGT CATCTCATTGCACTGAAAAACAAAACCA
 CCTTTTACCCTTGGTTGGAGTGCACATATGGCAATTTCTAGACCATTGAAAGCCTCTCAA
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 ACTTCTTCTCAGGTCATTACATTAGTATGATATGACATTAAGAAGCAAGCGTGGTTT
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 CGGAGTGGCTACATCTTCTTTTATGCACAAGGAGATCTTTGATGAGCTGCTGGAAACA
 GAAAAGAACTCTCAGTCACTTAGCACGGAAGTGGGAAGACTACCCGTCAGGCCTCGTGA

Clone variation with respect to NM_020935.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_020935 unedited
 TTCCCCGCCCGTTGCCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCA
 GAGCTCATTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGA
 ATTCGGCAGGAGGCCCATCAGCCGCTCTCCCTGACTAGGGGTAGCTAGCGGCCTCCCT
 CCTTTGGGTTCTGTATCCCTACTTCCATTACCCTCGGCTCCTCCCACTCCTCGGGGCTC
 CGTGCTTTCCGCGGGTCTGTCCGGGGCTCCGGACCCTCGGCGCAGCTGAGTTGATGGCT
 TCCGGAGAAGTGGCATAGCTGCAGAATATGAGTAGTGTCCCAAGAAGAGTGCTTTGCCTT
 TGGCACAAAGATCAGAATAAAGGTGAATTGCTATTACATAGGGTTTTTTCGGTAAAAGTCA
 CTGAAAATTTATTTGCCATACAGTAACCAGAGACCTCCAAGTGGGGCCCCAAAAGTAT
 CCTGCCTGTAGCCAGAAGCAATTTTTAAAGAAAATATGTCTCCTCTGAAGATACATGGTC
 CTATCAGAATTCGAAGTATGCAGACTGGGATTACAAAGTGGAAAGAAGGATCCTTTGAAA
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 GATAATTCAGCTAAGGCATAACATTA AAAAGGTGGTGCTTCAACCCAGTGGAGCGAAACA
 AAAGCCGCTATGGTAACCTCTGCAGAAACCAGCTTCTTGCTTATTGCCAAAGTACCCCA
 GTAGGATGCCACGAAATGAGGTTGTTTCTAGAAGCAGTCCATTA AACAGACTTCCTG
 CAGCCATGAAACCGTCTAAGGTCTGGAAGTTTTGGGGCCTTCTGGGCCGCGGGACCCCA
 CCGAGGAAACCCCGGCAGTTTTTACTCCACAATCAGGCTCTGGCCAAAAGG

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_020935 unedited AGAAATCCCTCATGTGATGGTGGGTTTTAAATGTTTTTTCCTTCTGAAAACCTGATGT GGCTTTGTCCCTCCCCTGATATCTTTTGAATAATCCCCTTGTATCATAAAAGAAAA ACACAAAATCCCTCGTGGNNCACTTTTCNATTTTTTCTCTGGGTGATCCTAATGAT ATCTGGGCTCACAAAATTATTTGTGGACAGAATTTCTCCTCCAAGAATTCTTTATCT GGCTTCATAAGCTGCCACCCCTAGCTGGTTACGTCCCCTTAGCGACTAGCCTANCACTTA CTGTTGCCGCTCCTCTTTGCCTCCCCTCAGAGCACCCCTTCTGCTCCTCACTTAATTATG CACCTCTGTCATCTGTTAGTTTTGGGATTACCTCCGCCATCCCCTTTATTTGCCACC CTCCTTTAAGGGCTTAGCCCGACAGTGTGTGGCTNAATGCCAAGGTTTGTCCCTTNGGC TCTGACTTACCTTCCCACTTGCCTCNGGCCTTTTTCTCCTGTGGTCCCGAATTTTAG CTTTCCCCTCCCAACCCTCCTCCTATCCTCCCTCTGTTGGCCGACCGATATTGCTATC TTCTTCCCTTCCCTATCTATTCTGCTGGGGTTTTTCATTTGGGGCTATCTTCCCTCCC CAATTTGTTTTACGTCTTTGGCGCCCCCTCTTTTGCCTGCCTGCCTCCCGGTTGTT TGCCCCGCAGATAAGAGTTCCTTCGTTCCCGCCCTGTTTTCGCGTACGGCCCTGCAGG TATCTCCCGTGGGACCAACCCCAAAAAAAAAAAGAAAAACAGAG
Restriction Sites:	NotI-NotI
ACCN:	NM_020935
Insert Size:	4700 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).
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_020935.1 , NP_065986.1
RefSeq Size:	8015 bp
RefSeq ORF:	2940 bp
Locus ID:	57695
UniProt ID:	Q86T82
Cytogenetics:	2q35
Protein Families:	Protease

Gene Summary:

Deubiquitinase that antagonizes the anaphase-promoting complex (APC/C) during G1/S transition by mediating deubiquitination of cyclin-A (CCNA1 and CCNA2), thereby promoting S phase entry. Specifically mediates deubiquitination of 'Lys-11'-linked polyubiquitin chains, a specific ubiquitin-linkage type mediated by the APC/C complex. Also mediates deubiquitination of 'Lys-48'-linked polyubiquitin chains in vitro. Phosphorylation at Ser-628 during G1/S phase maximizes the deubiquitinase activity, leading to prevent degradation of cyclin-A (CCNA1 and CCNA2) (PubMed:21596315). Plays an important role in the regulation of DNA replication by stabilizing the licensing factor CDT1 (PubMed:27296872). [UniProtKB/Swiss-Prot Function]