

## Product datasheet for SC115248

### USP25 (NM\_013396) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	USP25 (NM_013396) Human Untagged Clone
Tag:	Tag Free
Symbol:	USP25
Synonyms:	USP21
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115248 sequence for NM_013396 edited (data generated by NextGen Sequencing)

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ATGACCGTGGAGCAGAACGTGCTGCAGCAGAGCGCGCGCAGAAGCACCAGCAGACGTTT
TTGAATCAACTGAGAGAAATTACGGGGATTAATGACACCCAGATACTACAGCAAGCCTTG
AAGGATAGTAATGGAACTTGAATTAGCAGTGGCTTTCCCTTACTGCGAAGAATGCTAAG
ACCCCTCAGCAGGAGGAGACAACCTACTACCAAACAGCACTTCCCTGGCAATGATAGATAC
ATCAGTGTGGGAAGCCAAGCAGATACAAATGTGATTGATCTCACTGGAGATGATAAAGAT
GATCTTCAGAGAGCAATTGCCTTGAGTTTGGCCGAATCAAACAGGGCATTGAGGGAGACT
GGAATAACTGATGAGGAACAAGCCATTAGCAGAGTTCTTGAAGCCAGCATAGCAGAGAAT
AAAGCATGTTTGAAGAGGACACCTACAGAAGTTTGGAGGGATTCTCGAAACCCCTTATGAT
AGAAAAAGACAGGACAAAGCTCCCGTTGGGCTAAAGAATGTTGGCAATACTTGTGGTTT
AGTGCTGTATTACAGTCATTATTTAATCTTTTGAATTTAGAAGATTAGTTCTGAATTAC
AAGCCTCCATCAAATGCTCAAGATTTACCCGAAACAAAAGGAACATCGGAATTTGCCT
TTTATGCGTGAGCTGAGGTATCTATTTGCACTTCTTGTGGTACCAAAGGAAGTATGTT
GATCCATCAAGAGCAGTTGAAATCTTAAGGATGCTTTCAAATCAAATGACTCACAGCAG
CAAGATGTGAGTGAGTTTACACACAAATATTAGATTGGTTAGAAGATGCCTTCCAAATG
AAAGCTGAAGAGGAGACGGATGAAGAGAAGCCAAAGAACCCCATGGTAGAGTTGTTCTAT
GGCAGATTCCCTGGCTGTGGGAGTACTTGAAGGTAATAAATTTGAAAACACTGAAATGTTT
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ATGATTGAAGGAGAAATTGAGTCTTTACATTCAGAGAATTCAGGAAAATCAGGCCAAGAG
CATTGGTTTACTGAATTACCACCTGTGTTAACATTTGAATTGTCAAGATTTGAATTTAAT
CAGGCATTGGGAAGACCAGAAAAAATTCACAACAAATAGAATTTCCCAAGTTTATAT
TTGGACAGATACATGCACAGAAACAGAGAAATAACAAGAATTAAGAGGGAAGAGATCAAG
AGACTGAAAGATTACCTCACGGTATTACAACAAAGGCTAGAAAGATATTTAAGCTATGGT
TCCGGTCCCAAACGATTCCTTGGTAGATGTTCTTCAGTATGCATTGGAATTTGCCTCA
AGTAAACCTGTTTGCCTTCTCCTGTTGACGATATTGACGCTAGTTCCCCACCTAGTGGT
TCCATACCATCACAGACATTACCAAGCACAAACAGAACAACAGGGAGCCCTATCTTCAGAA

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CTGCCAAGCACATCACCTTCATCAGTTGCTGCCATTTTCATCGAGATCAGTAATACACAAA
CCATTTACTCAGTCCCGGATACCTCCAGATTTGCCCATGCATCCGGCACCAAGGCACATA
ACGGAGGAAGAACTTTCTGTGCTGGAAAGTTGTTTACATCGCTGGAGGACAGAAATAGAA
AATGACACCAGAGATTTGCAGGAAAGCATATCCAGAATCCATCGAACAATTGAATTAATG
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TTCCCTAATACAAGAGGAGTTTAAATAAGAAACTGGGCAGCCCTTGTGGTATAGAAACA
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ATCTGTGCTTATCAGAATAACAAAGAACTCTTGTCTAAAGGCTTATACAGAGGACATGAT
GAAGAATTGATATCACATTATAGAAGAGAATGTTTGTCTAAAATTAATGAGCAAGCCGCA
GAACTCTTCGAATCTGGAGAGGATCGAGAAGTAAACAATGGTTTGATTATCATGAATGAG
TTTATTGTCCCATTTTTGCCATTATTACTGGTGGATGAAATGGAAGAAAAGGATATACTA
GCTGTAGAAGATATGAGAAATCGATGGTGTTCCTACCTTGGTCAAGAAATGGAACACAC
CTCCAAGAAAAGCTGACAGATTTTTTGCCTAACTGCTTGATTGTTCTATGGAGATTAA
AGTTTTCCATGAGCCACCGAAGTTACCTTCATATCCACGCATGAACTCTGTGAGCGATT
GCCCGAATCATGTTGTCCCTCAGTCGAACTCCTGCTGATGGAAGATA
    
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Clone variation with respect to NM\_013396.3

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_013396 unedited
AGGTGAGAAATTTGTATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGGAGCCCG
CGGACCGGCAGCAAAGGACGTGCGAACGCGTGACGCCGCCGACTGGCTCGCGCTCTCCC
GTGCCCGGCGTCTCCGCCGCTCATGGCCCGGGCCGCCGCGGACGAGCGGCGCTGAGG
CGGGCCGCGTGGAGAGCTGAGGCGGCCGCGTGGCCCTCACAGTCGGCGTTTTGCCCGCT
GCCCGCGGTGCCCGGCACGCCGCCGCCATCGCCTTCGCGCCTGGCTGGCGGGGGCGCT
GTCCTCCCAGGCCGTCCGCGCCGCTCCCTGGAGCTCGGCGGAGCGCGGCAGCCAGGGCCG
GCGGAGGCGCGAGGAGCCGGGCGCCACCGCCGCCCGCCGCGCGCCGCGGGGCCAT
GACCGTGGAGCAGAACGTGCTGCAGCAGAGCGCGCGCAGAAGCACAGCAGACGTTTTT
GAATCAACTGAGAGAAATTACGGGGATTAATGACACCCAGATACTACAGCAAGCCTTGAA
GGATAGTAATGGAACCTTGAATTAGCAGTGGCTTTCCTTACTGCGAAGAATGCTAAGAC
CCCTCAGCAGGAGGAGACAACCTTACTACCAAACAGCACTTCTGGCAATGATAGATACAT
CAGTGTGGGAAGCCAAGCAGATACAAAATGTGATTGATCTCACTGGAGATGATAAAGATGA
TCCTCAGAGAGCAATTGCCTTGAGTTTGGCCCGATCAAACAGGGCATTGAGGCAGACTGG
AATAACTGATGACGAACAAGCCCTTACCAGAGTTCTTTGAACCAGCATAACAGAGAATAA
GCCTGTTTTGAAGAAGACCCTACAGAAGTTGTGGAGGGATTCTCCAACCCCTTATGATAG
A
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_013396 unedited ATGGACCGCGGGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTATGCCATAAATAA AACTTTATTCTTTATTTTCATTTACAAGCTACCAATATTATGTATCGTACACAGTGCTGA ACACTTAAATGGCTGTAGTCATGGAAGGATCCAGACTGAATGGAAAGCTGTTGAGAAAGA AAAGATAAAAGCAAAGTAATACTGCAACAGGAAGTGGCAAAGCATAGTTTTGCCATAA TAAAATCAATTAGATTTGTGATTATACATCAGTTCCGGTAAAAATGTCTGAGCGCCATGC GATTTTCAGCTTTATTGTCTGCAGTCTGACTAAAGTCTGTATAGTCATTTTGTCTTTTGC AGTTATTAATAAAAAAAGTTAAAACTATAGCAGCAACAAGCAAACCCTGTGACAGG AAGGCAAGGGTTAAGAACTAAAAAGAGTTTATACAGTGTGTTCCAGGAAAAGTGTGCAGTT TATCTTCCATCAGCAGGAGTTCGACTGAGGGACAACATGATTCGGGCAAATCGCTCACAG AGTTTCATCGTGGAAATATGAAGGTAACCTCGGTGGCTCATGGAACTTTTATCTCCTAGA ACAATCAAGCAGTTTTGGCAAAAAATCTGTCCACTTTTTTTGGAAGTGTGGTTCCCTTTC TTGACCAAGGTAGGAACCCCATCGGATTCTCATATTTTTTACAGCTAAGATATCCTCTTT TTCCTTTTCATCCACCAGTATTAATGGCAAAAAATGGGACAATTAACCTTTATTCTTGATAA TTAACCTTTGTTTCTTCTTGAACCCCAATCCAAAATTTGGCGTTTGCCTTTA ATTTACAAAAATTTCTTTTTTATGCGACAAAATCTTATCATTCCCTGTTTACACCTT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_013396
<b>Insert Size:</b>	4500 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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_013396.3</a> , <a href="#">NP_037528.3</a>
<b>RefSeq Size:</b>	4968 bp
<b>RefSeq ORF:</b>	3168 bp
<b>Locus ID:</b>	29761
<b>UniProt ID:</b>	<a href="#">Q9UHP3</a>
<b>Cytogenetics:</b>	21q21.1
<b>Domains:</b>	UCH, UIM
<b>Protein Families:</b>	Protease

**Gene Summary:**

Ubiquitin (MIM 191339) is a highly conserved 76-amino acid protein involved in regulation of intracellular protein breakdown, cell cycle regulation, and stress response. Ubiquitin is released from degraded proteins by disassembly of the polyubiquitin chains, which is mediated by ubiquitin-specific proteases (USPs), such as USP25 (Valero et al., 1999 [PubMed 10644437]).[supplied by OMIM, Mar 2008]

Transcript Variant: This variant (3) lacks two alternate in-frame exons in the 3' coding region, compared to variant 1, resulting in an isoform (USP25a) that is shorter than isoform a.

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.