

Product datasheet for **SC116911**

USP14 (NM_005151) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP14 (NM_005151) Human Untagged Clone
Tag:	Tag Free
Symbol:	USP14
Synonyms:	TGT
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 within SC116911 sequence for NM_005151 edited (data generated by NextGen Sequencing)

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ATGCCGCTCTACTCCGTTACTGTAAAATGGGGAAAGGAGAAATTTGAAGGTGTAGAATTG
AATACAGATGAACCTCCAATGGTATTCAAGGCTCAGCTGTTTGCCTTGACTGGAGTCCAG
CCTGCCAGACAGAAAGTTATGGTGAAAGGAGGAACGCTAAAGGATGATGATTGGGGAAAC
ATCAAAAATAAAAAATGGAATGACTCTACTAATGATGGGGTCAAGCAGATGCTCTCCAGAA
GAACCCCTCAGCCAAAACCTGTCTTCGTAGAAGACATGACAGAAGAACAGTTAGCATCTGCT
ATGGAGTTACCATGTGGATTGACAAAACCTTGGTAACACTTGTTACATGAATGCCACAGTT
CAGTGTATTCTGTTCTGTGCCTGAACTCAAAGATGCCCTTAAAAGGTATGCAGGTGCCTTG
AGAGCTTCAGGGGAAATGGCTTCAGCGCAGTATATTACTGCAGCCCTTAGAGATTTGTTT
GATTCCATGGATAAAACTTCTCCAGTATTCCACCTATTATTCTACTGCAGTTTTTGCAC
ATGGCTTTCCACAGTTTCCGAGAAAGGTGAACAAGGACAGTATCTTCAACAGGATGCT
AATGAATGTTGGATACAAATGATGCGAGTATTGCAACAGAAATTTGAAGCAATAGAGGAT
GATTCTGTAAAGAGACAGACTCCTCATCTGCATCGGCAGCGACACCTTCTAAAAAGAAA
AGTTTAATCGATCAGTTCTTCGGTGTGAGTTTAAAAGTACCATGAAATGTACAGAACTCT
GAAGAAGAAGAAGTACCAAAAGGAAAGGAAAATCAACTTCAGCTTAGCTGTTTTATCAAT
CAGGAAGTCAAGTATCTTTTACAGGACTTAAATTGCGACTTCAGGAAGAATACACAAA
CAGTCTCCAACGTTGCAAGAAATGCCTTGTATATCAAATCTTCCAAGATCAGCCGGCTG
CCTGCTTACTTGACCATTAGATGGTTCGATTTTTTTATAAAGAGAAGGAATCTGTGAAT
GCCAAAGTTCTTAAGGATGTTAAATTTCTCTTATGTTGGATATGTATGAACTGTGTACA
CCAGAACTTCAAGAGAAAATGGTGTCTTTTCGATCCAAATTCAGGATCTAGAAGATAAA
AAAGTGAATCAGCAGCCAAATACAAGTGACAAAAGAGTAGTCCCAGAAAGAAGTTAAG
TATGAACCTTTTCTTTTGTGATGATATTGGCTCCAATAATTGTGGATACTATGACTTA
CAAGCAGTACTAACACACCAGGGAAGGTCTAGTTCTTCAGGTCAATTATGTATCATGGGTG
AAAAGGAAAACAAGATGAATGGATTAAGTTTGTGATGACAAAAGTCAAGCATCGTAACCA
GAAGATATCTTACGGCTTCTGGTGGTGGAGACTGGCATATCGCTTACGTTCTACTCTAT
GGGCTCGCAGAGTTGAAATAATGGAAGAGGAAAGTGAACAGTAA

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Clone variation with respect to NM_005151.3

5' Read Nucleotide Sequence: >OriGene 5' read for NM_005151 unedited

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AATTGTATACGACNACTATAGGGCGGCCGGAATCGGCACGAGGGAGACTCGTCGCACCG
AAGCCGCCGCCACCACCGCGCTCCGCCTCGGCCGCCGCCGACGCTGCTCCTGGTCCCCG
TCCCTTTGCCGCCTCGTCAGGCCAGCTCTCCTGCGCCGCCCTCCCGCCGCGCCCCG
CCATGCCGCTCTACTCCGTTACTGTAAAATGGGGAAAGGAGAAATTTGAAGGTGTAGAAT
TGAATACAGATGAACCTCCAATGGTATTCAAGGCTCAGCTGTTTGCCTTGACTGGAGTCC
AGCCTGCCAGACAGAAAGTTATGGTGAAAGGAGGAACGCTAAAGGATGATGATTGGGGAA
ACATCAAAAATAAAAAATGGAATGACTCTACTAATGATGGGGTCAAGCAGATGCTCTTCCAG
AAGAACCCTCAGCCAAAACCTGTCTTCGTAGAAGACATGACAGAAGAACAGTTAGCATCTG
CTATGGAGTTACCATGTGGATTGACAAAACCTTGGTAACACTTGTACATGAATGCCACAG
TTCAGTGTATTCTGTTCTGTGCCTGAACTCAAAGATGCCCTTAAAAGGTATGCAGGTGCCT
TGAGAGCTTCAGGGGAAATGGCTTCAGCGCAGTATATTACTGCAGCCCTTAGAGATTTGT
TTGATTCCATGGATAAAACTTCTCCAGTATTCCACCTATTATTCTACTGCAGTTTTTGC
ACATGGCTTTCCACAGTTTCCGAGAAAGGTGAACAGGGACAGTATCTTACAGGATGC
TAATGAATGTTGGATACAAATGATGCGAGTATTGCACAGAAAATGGAGCATAGAGGATGAT
TCTGTAAGAGAAGACNCTCTCTGCATCGG

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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005151 unedited GCTATGGCCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGAGATGTTATG ATAATCCCAAACTTTATTATAAATAACTCAAAATCAGAGCCAAACTGGCTGGTATTCTA TGCTTTATCCTTTCCCTAGCATCAGTCAAGGGTCTGGAACAAAGATGAGTAACTATTAA AATGTAAGAAGCCTATCATATTGAAATACCTCATATGCTTGGTATTTTCTACTATCACTT TAAAATCACTAAAATTCTGAAACAGACATTAAGATTTGGGAATTTTTCTTTTTTTTTTT GAGACAGAGTCTCTCTGTCACCCAGGCTGGAGTGCAGTGGTGTGATCTCAGCTCACTGCA ACTTCTGCCTTCCAGGTTCAAGCAATTCTCCACCTCAGCCTCCAAGTAGCTGGGATCA CAGGTGTGCACCACACATCCAGCTAATTTTTATATCTTTAGTAGAGACAGGGTTTCACC ATGTGGCCAGGCTGGTCTCGAACTCAACCTCCAGTGAACCACTGCCTCAGCTCCCAAA GTGCTGGGATTACAGGCGTGAGCCACCGTGCCAGCCAAGATTTGGGAATTAAGAAAGG AAATACAAACACAACCTGAGCCAAGGAAAGAATCTGACTGATAACATCACTGCATTAGCA TCCAAAGAAATCCATTACTTTTACAACCTTGTATTTCTTTTTAAATACAGGCAGGCAAAG AAGATACAAATATTTTTAAATGGATGCTTACAGCACAGTGTTAATAACCATCTTCAGAAA TTGTACAGTATTAACATGTCTTCAGCCAAGCTCCACACTCAGAAACAAAAGACCTGAGT CAAAGCTATTAACCTTTNTTTTATTATTATAAAGCCTCATTCTAAAAAAGCACCGAGC TTGCACATTTCTAAGACGTTATTCAAGCTTCCAGTTATG
Restriction Sites:	NotI-NotI
ACCN:	NM_005151
Insert Size:	3270 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_005151.2 , NP_005142.1
RefSeq Size:	2966 bp
RefSeq ORF:	1485 bp
Locus ID:	9097
UniProt ID:	P54578
Cytogenetics:	18p11.32
Domains:	UBQ, UCH
Protein Families:	Druggable Genome, 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 ubiquitinated proteins. Mice with a mutation that results in reduced expression of the ortholog of this protein are retarded for growth, develop severe tremors by 2 to 3 weeks of age followed by hindlimb paralysis and death by 6 to 10 weeks of age. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

[provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).