

Product datasheet for **SC111097**

USP10 (NM_005153) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP10 (NM_005153) Human Untagged Clone
Tag:	Tag Free
Symbol:	USP10
Synonyms:	UBPO
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC111097 sequence for NM_005153 edited (data generated by NextGen Sequencing)

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ATGGCCCTCCACAGCCCCGAGTATATTTTTGGAGATTTTAGCCCTGATGAATTCAATCAA
TTCTTTGTGACTCCTCGATCTTCAGTTGAGCTTCTCCATACAGTGGAACAGTTCTGTGT
GGCACACAGGCTGTGGATAAACTACCTGATGGACAAGAATATCAGAGAATTGAGTTTGGT
GTCGATGAAGTCATTGAACCCAGTGACACTTTGCCGAGAACCCCCAGCTACAGTATTTCA
AGCACACTGAACCCCTCAGGCCCTGAATTTATTCTCGGTTGTACAGCTTCCAAAATAACC
CCTGATGGTATCACTAAAGAAGCAAGCTATGGCTCCATCGACTGCCAGTACCCAGGCTCT
GCCCTCGCTTTGGATGGAAGTTCTAATGTGGAGGCGGAAGTTTTGGAAAATGATGGTGTG
TCAGGTGGTCTTGGACAAAGGGAGCGTAAAAAGAAGAAAAAGCGGCCACCTGGATATTAC
AGCTATTTGAAAGATGGTGGCGATGATAGTATCTCCACAGAAGCCCTGGTCAATGGCCAT
GCCAATTCAGCAGTCCCGAACAGTGTGAGTGCAGAGGATGCAGAAATTTATGGGTGACATG
CCCCCGTCAGTTACGCCAGGACTTGTAACAGCCCCCAGAAGTCCACAGACTCTGTGAGT
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CAGCCAGAGGGGGCCCCGGGGTGATTTTGGTCAGTCTGCTTCCCTGCAGAGGCTGGC
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AACCTTGGAGTTGCTAATGGACAAATACTGAATCCTCGGTTGAGGGCACAGCTACCAAC
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CGCACAGTCCAGGATGCACTGGAGAGCTTGGTGGCAAGAGAATCTGTCCAAGGTTATACC
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GTCCTCGTGTGCACCTGAAACGATTCGTTTATGAGAAGACTGGTGGGTGCCAGAAGCTT
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GTTAAAAATAAGAATTTTAAATGCCACCGAACCTATCGGCTGTTTGCAGTGGTCTACCAT
CACGGCAACAGTGCAGCGGGCGGCCATTACACTACAGACGCTTCCAGATCGGTCTGAAT
GGCTGGCTGCGCATCGATGACCAGACAGTCAAGGTGATCAACCAGTACCAGGTGGTGAAA
CCAACCTGCTGAACGCACAGCCTACCTCCTGTATTACCGCCGAGTGGACCTGCTGTAA

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Clone variation with respect to NM_005153.2
675 c=>t;1161 t=>g;1563 a=>g;2202 c=>g

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005153 unedited</p> <pre> NNNAAGGGTTCAAATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGAAG AGGCGGCGGGGGGAAGCAGCGTGAGCAGCCGGAGGATCGCGGAGTCCCAATGAAACGG GCAGCCATGGCCCTCCACAGCCCGCAGTATATTTTTGGAGATTTAGCCCTGATGAATTC AATCAATTCCTTTGTGACTCCTCGATCTTCAGTTGAGCTTCTCCATACAGTGGAACAGTT CTGTGTGGCACACAGGCTGTGGATAAACTACCTGATGGACAAGAATATCAGAGAATTGAG TTTGGTGTGCGATGAAGTCATTGAACCCAGTGACACTTTTCCGAGAACCCCCAGCTACAGT ATTTCAAGCACACTGAACCCTCAGGCCCTGAATTTATTCTCGGTTGTACAGCTTCCAAA ATAACCCCTGATGGTATCACTAAAGAAGCAAGCTATGGCTCCATCGACTGCCAGTACCCA GGCTCTGCCCTCGCTTTGGATGGAAGTTCTAATGTGGAGGCGGAAGTTTTGAAAAATGAT GGTGTCTCAGGTGGTCTTGGACAAGGGAGCGTAAAAAGAGAAAAAGCGGCCACCTGGATA TTACAGCTATTTGAAAGATGGTGGCGATGATAGTATCTCCACAGAAGCCCTGGTCAATGG CCATGCCAATTCAGCAGTCCCGAACAGTGCAGTGCAGAGGATGCAGAATTTATGGGTGA CATGCCCCGTCAGTTACGCCAGNACTTNGTACAGCCCCAGAACTNCACAGACTCTGT CAGTGACATTGTGCTGATAGTCTTTCCCGGACACTCGGCAGTGACACCAGGACTGCA GGNCAGCCAGAGGGGGGCCCGGNGCTGATNTTGGTCAGTCTGCTTCCCTGCAGAGGC TGGCAGAGACACCTGT </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005153 unedited</p> <pre> NNGGGTACGACTATGNNACCGCGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAACCAACTTTGGGATTTTTATTGAGGGCGAC AACTTTTACTCCTAGATATCACTAAACTGGGTACAATTAGGGACCCCGCATTAGAGAAA AGCAGACCGCAGAATTAACAGAGCAGACTGGAGGAGAGATCTTCATTATTTGCCATTT TTCATTATGTGTACCCAGAAGCCTGAATGCCATTTGAAATCTTTAATGGCAATAAAGTT ACAATCACCCATCTATGTAGACTAACATTTTAACTCCAAATATTTGATCTGCAATGGGTA CCTAAGCAGTTTCTCTCAGTACAATTTAAAATTTTCTGGTAGGAACAGCAACCTA TTTTTAAAGGTTATTTTCTTTTGAAGGAAAACTAATCTTCTTTGATAACCGGCCAT TTTTATCATTTATCAAAAATAAAGGGTAGGGAAAAAAGTGTGATGGATTAAAAATTT CTTTTTAAGGGAAGATAAAATTCATTTTACAAAATTTACCAATGTTGTTGCTGGTGCCA GATTTATTCACATAAGCCATGAGACTGGGGATCAATCCACTTTCTTATCTCAAGATCA GCCTTATTTAGAAAATGGGGTTTTGGGGATTTTCTAAATCAAGCAACAGTCTGTTTCAA CCCAATGATTTTTGATTGGAAGTTAAAAGTCACAAAACTGGGTTTGTGCACCAACCCCC AGGGGATCTTTTTATTCTAGCCATTTTGGACAAGGGGAAAGAGTTCTCTCTCAAGA ACCCCTTAAGAAAAGCCGGAATGAATGGGAAGGGGGGTCCCACAAACCGGACCGGGG AC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_005153
Insert Size:	3500 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:

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_005153.1](#), [NP_005144.1](#)

RefSeq Size: 3009 bp

RefSeq ORF: 2397 bp

Locus ID: 9100

UniProt ID: [Q14694](#)

Cytogenetics: 16q24.1

Domains: UCH

Protein Families: Druggable Genome, Protease

Gene Summary: Ubiquitin is a highly conserved protein that is covalently linked to other proteins to regulate their function and degradation. This gene encodes a member of the ubiquitin-specific protease family of cysteine proteases. The enzyme specifically cleaves ubiquitin from ubiquitin-conjugated protein substrates. The protein is found in the nucleus and cytoplasm. It functions as a co-factor of the DNA-bound androgen receptor complex, and is inhibited by a protein in the Ras-GTPase pathway. The human genome contains several pseudogenes similar to this gene. Several transcript variants, some protein-coding and others not protein-coding, have been found for this gene. [provided by RefSeq, Jan 2013]
Transcript Variant: This variant (2) lacks an alternate exon in the 5' end compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus compared to isoform 1.