

Product datasheet for **SC124133**

USP2 (NM_171997) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP2 (NM_171997) Human Untagged Clone
Tag:	Tag Free
Symbol:	USP2
Synonyms:	UBP41; USP9
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_171997, the custom clone sequence may differ by one or more nucleotides

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ATGCGCACCTCGTACACCGTGACCCTGCCCGAGGACCCCCCGCCGCCCTTTCCCGCCCTCGCCAAGG
AGCTGCGGCCGCGCTCCCCTCTCTCCCCGTCCCTGCTGCTCTCCACCTTCGTGGGGCTCCTGCTCAACAA
AGCCAAGAATTCTAAGAGTGCCAGGGTCTGGCTGGTCTTCGAAACCTTGGGAACACGTGCTTCATGAAC
TCAATTCTGCAGTGCCTGAGCAACACTCGGGAGTTGAGAGATTACTGCCTCCAGAGGCTCTACATGCGGG
ACCTGCACCACGGCAGCAATGCACACACAGCCCTCGTGGAAAGAGTTTGAAAACCTAATTCAGACCATATG
GACTTCATCCCCAATGATGTGGTGAGCCCATCTGAGTTCAAGACCCAGATCCAGAGATACGCACCCGCGC
TTTGTGGCTATAATCAGCAGGATGCTCAGGAGTTCCTTCGCTTCTTCTGGATGGGCTCCATAACGAGG
TGAACCGAGTGACTGAGACCTAAGTCCAACCCTGAGAACCTCGATCATCTTCCCTGATGACGAGAAAGG
CCGACAGATGTGGAGAAAATATCTAGAACGGGAAGACAGTAGGATCGGGGATCTCTTTGTTGGGAGCTA
AAGAGCTCGTGACGTGTACAGATTGTGGTTACTGTTCTACGGTCTTCGACCCCTTCTGGGACCTCTCAC
TGCCCCATTGCTAAGCGAGGTTATCCTGAGGTGACATTAATGGACTGCATGAGGCTCTTACCACAAAGAGGA
TGTGCTTGATGGAGATGAAAAGCCAACATGCTGTCGCTGCCGAGGCAGAAAACGGTGTATAAAGAAGTTC
TCCATCCAGAGGTTCCCAAAGATCTTGGTGCTCCATCTGAAGCGGTTCTCAGAATCCAGGATCCGAACCA
GCAAGCTCACAAACATTTGTGAACCTCCCCCTAAGAGACCTGGACTTAAGAGAATTTGCCTCAGAAAAAC
CAACCATGCTGTTTACAACCTGTACGCTGTGTTCAATCACTCCGGAACCCACATGGGTGGCCACTATACA
GCCTACTGTGCGAGTCCAGGGACAGGAGAATGGCACACTTTCAACGACTCCAGCGTCACTCCCATGTCTCT
CCAGCCAAGTGCCACCAGCGACGCCTACCTGCTTCTACGAACTGGCCAGCCCGCCCTCCCGAATGTA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_171997 unedited GGGGTCGGGTTTCGTGATCCGACTTCTGTGCGCCGTGAGCATACCACTCTACCGNGCCG GGACCTTTTCTGTTGGCGGCGCACGCCGGGAGGTTGAGGCGGAGGAGCGCGCTTCGGG CGCCGCGGACGCTGTCTGTAGCGGTCTCGCCGGCCTCGGCGTCCGGACTGTGGCACCGC GCGGGGACTCCCCCGCGCCCCGCTGCCAACGTTTTTCTCTTTGCCAAAGCCCGCCGCC CGTTCTGGGGGATGCGCACCTCGTTCTCCGTGACCCTGCCGAGGACCCCCCGCCGCC CCTTTCCCGCCCTCGACAAGGAGCTGCGGCCGCGCTCCCCTCTCTCCCCGTCCCTGTGC TCTCCACCTTCGTGGGGCTCCTGCTCAACAAAGCCAATAATTCTAAGAGTGCCCAGGGTC TGGCTGGTCTTCGAAACCTTGGGAACACGTGCTTCATGAACTCAATTCTGCAGTGCCTGA GCAACACTCGGGAGTTGAGAGATTACTGCCTTCAGACGCTCTACATGCGGGACTGCACC ACGGCAGGCATGCACACACAGCCCTCGTGGGAAGAGTTTGCGAACTAATTCAGACCATA TGGACTTCATCCCCAATGATGTGGTGAGCCATCTTGATTCAAGACCTAGATCCATAGA TATGCACCGCGCTTTGTTGGCTATTATCAGCCGGATGCTCAGAGTTTCTCCCTTTCTC ACGGTATGGGCTCATAACGATGTGAATCCGTTTGATCTTAGCCCTAGGTGCGGCCCTGA GAACCTTGTCCCCTTACTGCTGACCACCAAGCCGACATAGGTTTCAGAAAATTTTTGCC CGAGAGAACCCTTGATCGGGGCTCCCTCTGCGGGGCACTTATAACAGCCTGCCGGTAA CAATGGGGGTACCGTT
Restriction Sites:	Please inquire
ACCN:	NM_171997
Insert Size:	2700 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:	<u>NM_171997.1</u> , <u>NP_741994.1</u>
RefSeq Size:	1378 bp
RefSeq ORF:	1191 bp
Locus ID:	9099
UniProt ID:	<u>O75604</u>
Cytogenetics:	11q23.3
Protein Families:	Protease

Gene Summary:

This gene encodes a member of the family of de-ubiquitinating enzymes, which belongs to the peptidase C19 superfamily. The encoded protein is a ubiquitin-specific protease which is required for TNF-alpha (tumor necrosis factor alpha) -induced NF-kB (nuclear factor kB) signaling. This protein deubiquitinates polyubiquitinated target proteins such as fatty acid synthase, murine double minute 2 (MDM2), MDM4/MDMX and cyclin D1. MDM2 and MDM4 are negative regulators of the p53 tumor suppressor and cyclin D1 is required for cell cycle G1/S transition. Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2011]

Transcript Variant: This variant (2) is missing 2 exons from the 5' end, and contains an alternate 5' terminal exon compared to transcript variant 1. This results in a shorter isoform (b) with a different N-terminus compared to isoform a.