

Product datasheet for **SC108156**

USP2 (NM_004205) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP2 (NM_004205) Human Untagged Clone
Tag:	Tag Free
Symbol:	USP2
Synonyms:	UBP41; USP9
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 SC108156 sequence for NM_004205 edited (data generated by NextGen Sequencing)

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ATGTCCCAGCTCTCTCCACCCTGAAGCGCTACACAGAATCGGCCCGCTACACAGATGCC
CACTATGCCAAGTCGGGCTATGGTGCCTACACCCCGTCTCTCTATGGGGCCAATCTGGCT
GCCTCCTTACTGGAGAAGGAGAACTTGGTTTCAAGCCGGTCCCCACCAGCAGCTTCCTC
ACCCGTCCCCGTACCTATGGCCCTCCTCCCTCCTGGACTATGACCGGGGCGCCCTGAG
CTGAGACCCGACATCACTGGGGTGGTAAGCGGGCAGAGAGCCAGACCCGGGGTACTGAG
CGGCCTTTAGGCAGTGGCCTCAGCGGGGCGAGCGGATTCCTTATGGAGTGACCAACAAC
TGCTCAGCTACCTGCCATCAATGCCTATGACCAGGGGGTACCCCTAACCCAGAAGCTG
GACAGCCAATCAGACCTGGCCCGGATTCTCCAGCTCCGGACCTCAGATAGCTACCGG
ATAGACCCAGGAACCTGGGCCGAGCCCATGCTGGCCCGGACGCGCAAGGAGCTCTGC
ACCCTGCAGGGGCTCTACCAGACAGCCAGCTGCCCTGAATACCTGGTCTGACTACCTGGAG
AACTATGGTTCGCAAGGGCAGTGCATCTCAGGTGCCCTCCAGGCCCTCCTCACGAGTC
CCTGAAATCATCAGCCAACTACCGACCCATTGGCCGTACACGCTGTGGGAGACGGGA
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ATTCTGCAGTGCCTGAGCAACACTCGGGAGTTGAGAGATTACTGCCTCCAGAGGCTCTAC
ATGCGGGACCTGCACCACGGCAGCAATGCACACAGCCCTCGTGGAAAGAGTTTGCAAAA
CTAATTCAGACCATATGGACTTCATCCCCAATGATGTGGTGAGCCCATCTGAGTTCAAG
ACCCAGATCCAGAGATACGCACCCGCGCTTTGTTGGCTATAATCAGCAGGATGCTCAGGAG
TTCCTTCGCTTTCTTCTGGATGGGCTCCATAACGAGGTGAACCGAGTGACACTGAGACCT
AAGTCCAACCTGAGAACCTCGATCATCTTCTGATGACGAGAAAGGCCGACAGATGTGG
AGAAAATATCTAGAACGGGAAGACAGTAGGATCGGGGATCTCTTTGTTGGGCAGCTAAAG
AGCTCGCTGACGTGTACAGATTGGTTACTGTTCTACGGTCTTCGACCCCTTCTGGGAC
CTCTCACTGCCATTGCTAAGCGAGGTTATCCTGAGGTGACATTAATGGACTGCATGAGG
CTCTTCACCAAAGAGGATGTGCTTGATGGAGATGAAAAGCCAACATGCTGTGCTGCCGA
GGCAGAAAACGGTGTATAAAGAAGTTCTCCATCCAGAGGTTCCCAAAGATCTTGGTGCTC
CATCTGAAGCGGTTCTCAGAATCCAGGATCCGAACCAGCAAGCTCACAACATTTGTGAAC
TTCCCCAAGAGACCTGGACTTAAGAGAATTTGCCTCAGAAAACACCAACCATGCTGTT
TACAACCTGTACGCTGTGTCCAATCACTCCGGAACCCATGGGTGGCCACTATACAGCC
TACTGTGCGAGTCCAGGGACAGGAGAATGGCACACTTTCAACGACTCCAGCGTCACTCCC
ATGTCCTCCAGCCAAGTGCGCACCCAGCGACGCCTACCTGCTCTTCTACGAACTGGCCAGC
CCGCCCTCCCGAATGTAG
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Clone variation with respect to NM_004205.4

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004205 unedited</p> <pre>AATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGAGGTGGGAGA GAGTCAGGCAGGAGCCGAGGCGGGGAGCCCTCTTCGTAGCTGGTGCTCACTGCGCCGC GCCAGCGCCAGCCGGGACTACCCCGCAGCTCCATGCTTGTGCCGGTTCGACTCGTCCAT CCTCCAAGAAGAGGCAGCCCATGAGGCTCCCAGTCCCCTGAGTGCCACCCTGAAGGAT GTCCCAGCTCTCCTCCACCCTGAAGCGCTACACAGAATCGGCCGCTACACAGATGCCCA CTATGCCAAGTCGGGCTATGGTGCTACACCCCGTCTCCTATGGGGCCAATCTGGCTGC CTCCTTACTGGAGAAGGAGAACTTGGTTCAAGCCGGTCCCACCAGCAGCTTCTCCAC CCGTCCCCGTACCTATGGCCCTCTCCTCCTGGACTATGACCGGGCCGCCCCCTGCT GAGACCCGACATCACTGGGGTGGTAAGCGGGCAGAGACCAGACCCGGGGTACTGAGCG GCCTTTAGGCAGTGGCCTCAGCGGGGCAGCGGATTCCCTTATGGAGTGACCAACAAGT CCTCAGCTACCTGCCATCAATGCCTATGACCACGGGGTGACCCTAACCCAGAAGCTGGA CAGCCAATCAGACCTGGCCGGGATTTCTCCAGCTCCGGACCTCATATAGCTACCGGAT AGACCCAGGAACCTGGCCCGCAGCCCCATGCTGGCCGGACGCGCAAGAGCTCTGCAC CCTGGCAGGGCTCTACANACAGCCAGCTGCCCTGAATACCTGGTCGACTACCTGGAGAA CTTGGGGCGCCAGGGCAGTGCATCTACAGTGCCTCCCAGGCCCTCCCTCACGAGTCC CTGAAATCATTAGCCCAACCTACCGACCAATTTGGCCGCGTCCCCTGTGGGGAGACCGG GAAAGGTCATGCCCTGGGCCAGCCCTCCACCTTCCGGGAAGGAACGCTTGATT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' genomic read for NM_004205 unedited</p> <pre>NCAACTATGNAACCGCGCCGAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTTGATTT CTCAAANCTATTATTTTCTGTACAAGTTTCCACTGTACATTAGACATTCTTCTACTCT TGCTTACACAGTAAACAAGTGTACACTTGCCCTTGGGCTCAGGTTACAGGCTTCTCTCTG GAGAAGGGTGTCAAGCCAGTAAACTCAGGGTGTCTTTCTCTGATGCCTCCTCCTAGGAG CCTGGAATGTGCCAGGCTCCACGGGGCACAAGCCGGGCCAGCTGTGTGGGTGAACAGCT TACTCTCCAGGACAGCACAGAGTTTTATCCAATATGTAGGGCAAAATTGAGCCACAG GAAAGAACCATACTGAGGCAAGATGTCCCAAAATACCCAGGCTCCAGCTCCCAGGGC AGGACTGGAGACCAGCGCTAAGAAGAGCTGAGGGGTGGCTGGGCATCCCTGAGAAACTC GGTCCAAAGGGCCTATTGTCTAGGAGGCTCTGAGAAGGGGGCGGGGCAGGAAGGCCAGG GGGAAAGGGATGTTAAGAGAATAAATAAAGGGAGAGAAGCTCTAGGGACGAGGGGCTTG TGCTATCCTTCAAACAGCTGGGGAGCAGACCANGGGTGGGCTAGAGGACGTGGCGGGAA AGACTTGATGCCCTGTGCAAGGAATCTACCTGCTTTCTTTGCTCACTGCAATGCA CAACGAGCCAAGGCTAAAGGCAGGATTCCTTTCCAGGCCGTTTGAACAGAGCACTGG GGGAAAAAGGAAAAAGCTTGGGGAAATTTTCGGGAGGGGCCAGTTACCCCTGGGTCCC CAAATGCTTTAAAGCAACAATTCTGGGAGGCCACTTAATTTCCCTTCCAAACTTTAAAAA AAAAAAAAAAAAACCCCAACCCCAAAAAAGAACTTGGTTAAATTCCAAT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_004205
Insert Size:	4400 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_004205.3](#), [NP_004196.3](#)

RefSeq Size: 2633 bp

RefSeq ORF: 1818 bp

Locus ID: 9099

UniProt ID: [O75604](#)

Cytogenetics: 11q23.3

Domains: UCH

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 (1) encodes the longest isoform (a).