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Product datasheet for SC330173

USP2 (NM_001243759) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP2 (NM_001243759) Human Untagged Clone
Tag:	Tag Free
Symbol:	USP2
Synonyms:	UBP41; USP9
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001243759, the custom clone sequence may differ by one or more nucleotides

ATGCTTGTGCCCGGTTCGACTCGTCCATACTCCAAGAAGAGGCAGAATTCTAAGAGTGCCCAGGGTCTGG
CTGGTCTTCGAAACCTTGGGAACACGTGCTTCATGAACTCAATTCTGCAGTGCCTGAGCAACACTCGGGA
GTTGAGAGATTACTGCCTCCAGAGGCTCTACATGCGGGACCTGCACCACGGCAGCAATGCACACACAGCC
CTCGTGGAAGAGTTTGCAAAACTAATTCAGACCATATGGACTTCATCCCCCAATGATGTGGTGAGCCCAT
CTGAGTTCAAGACCCAGATCCAGAGATACGCACCGCGCTTTGTTGGCTATAATCAGCAGGATGCTCAGGA
GTTCCTTCGCTTTCTTCTGGATGGGCTCCATAACGAGGTGAACCGAGTGACACTGAGACCTAAGTCCAAC
CCTGAGAACCTCGATCATCTTCCTGATGACGAGAAAGGCCGACAGATGTGGAGAAAATATCTAGAACGGG
AAGACAGTAGGATCGGGGATCTCTTTGTTGGGCAGCTAAAGAGCTCGCTGACGTGTACAGATTGTGGTTA
CTGTTCTACGGTCTTCGACCCCTTCTGGGACCTCTCACTGCCCATTGCTAAGCGAGGTTATCCTGAGGTG
ACATTAATGGACTGCATGAGGCTCTTCACCAAAGAGGATGTGCTTGATGGAGATGAAAAGCCAACATGCT
GTCGCTGCCGAGGCAGAAAACGGTGTATAAAGAAGTTCTCCATCCAGAGGTTCCCAAAGATCTTGGTGCT
CCATCTGAAGCGGTTCTCAGAATCCAGGATCCGAACCAGCAAGCTCACAACATTTGTGAACTTCCCCCTA
AGAGACCTGGACTTAAGAGAATTTGCCTCAGAAAACACCAACCATGCTGTTTACAACCTGTACGCTGTGT
CCAATCACTCCGGAACCACCATGGGTGGCCACTATACAGCCTACTGTCGCAGTCCAGGGACAGGAGAATG
GCACACTTTCAACGACTCCAGCGTCACTCCCATGTCCTCCAGCCAAGTGCGCACCAGCGACGCCTACCTG
CTCTTCTACGAACTGGCCAGCCCGCCCTCCCGAATGTAG

Restriction Sites:	SgfI-MluI
ACCN:	NM_001243759

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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_001243759.1, NP_001230688.1
RefSeq Size:	2933 bp
RefSeq ORF:	1089 bp
Locus ID:	9099
UniProt ID:	O75604
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 (3) lacks an internal exon in the 5' region, compared to variant 1. The resulting isoform (c) has a shorter and different N-terminus compared to 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.