

Product datasheet for **SC117705**

USP13 (NM_003940) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP13 (NM_003940) Human Untagged Clone
Tag:	Tag Free
Symbol:	USP13
Synonyms:	IsoT-3; ISOT3
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 SC117705 sequence for NM_003940 edited (data generated by NextGen Sequencing)

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ATGCAGCGCCGGGGCGCCCTGTTTCGGCATGCCGGGCGGCAGCGGAGGCAGGAAGATGGCT
GCAGGAGACATCGGCGAGCTGCTAGTGCCCCACATGCCACGATCCGCGTGCCAGGTCC
GGCGACAGGGTCTACAAGAACGAGTGCGCCTTCTCCTACGACTCTCCAATTCTGAAGGT
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ATATCCAGATCACTATGAAATAGCACTACCAATATTGAGGAGTTACCAGCCCTGGTA
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GCCCTACAAGCAAAGTCTGCGGGTGTGAAAACATCTCGCTTTGCTTCATCCCTGAATAC
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CCAGGAGAGGAAGAACTTCCAGACATCAGCCCCCATAGTCACTTCTGATGACTCAAAA
GATCGCCTGATGAACCAATTGATAGACCCATCAGACATCGATGAGTCATCAGTGTGCAG
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GAGAATAATGCCAATGCAAACTATTTCTGAGGCCAAGCCGAAGGACCTAGAGTCAAG
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AAAGTTTGTGCTCAGAAAGGCCCCCTAAAGACCTGGGCTACATGTACTTTACCGCAGG
ATACCAAGCTAA
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Clone variation with respect to NM_003940.2

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003940 unedited</p> <p>TATTATGTAATACGACTCACTATAGGGCGGCNCGCAATTTCGCACGAGGGCAGCTGGGCC GGAGACTCGCCATTGGATTAAAAAGCGTCGCCAGTCCGCCCCAAGCCCGCGGTGCCCGC TCCCGCCCCGAGCCCGCTCTCCCGCCCCGCCCCGGCTCGGCCGGCTGCCGTTGCCCGCG CAGCCCCCGCGTCAGCCCGCTCGCTGGCGCCGCCGCCGCCGAGACCCCGCGCTCCGGC TCCGGCTCGGCTCGCTCGGCTCCGGTGC CGCGCCGAGGCCATGCAGCGCCGGGGCGCCCTG TTCCGCATGCCGGCGGCAGCGGAGGCAGGAAGATGGCTGCAGGAGACATCGGCGAGCTG CTAGTGCCCCACATGCCACGATCCGCGTGCCAGGTCCGGCGACAGGGTCTACAAGAAC GAGTGCGCCTTCTCTACGACTCTCCCAATTCTGAAGGTGGACTCTATGTATGCATGAAT ACATTTTTGGCCTTTGGAAGGGAACATGTTGAAAGACATTTTCGAAAACTGGACAGAGA CTATACATGCACCTGAAAAGACATGTGCGAGAGAAGGTAAGAGGGGCGTCTGGTGGAGCG TTACCAAAAAGGAGGAATTCCAAGAATTTTTAGATCTAGATACTGATGACGATTTAAAT AGCGACGATTATGAATATGAAGATGAAGCCAACTTGTTATATCCAGATCACTATGAA ATAGCACTACCAATATTGAGGAGGTACCAGCCCTGGTAACAATTGCTTGTGATGCAGTT CTCAGCTCAAAATCTCCATACAGAAAGCAGGACCCAGACACGTGGGAAAAATGAATTGCC AGTATCTAAATATGCCAACCAACCTCACCCACCTGGACAATGGAGTCAGGATTCTCTCCAG TGGGTTGGAAGTGTGCCACATGCGACCTGCGAGAAAACCTCTGGTGAATCTGACTGAACG CTCTGTNCTGTGTGAAAATTGTTTCTTGACACT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_003940 unedited</p> <p>GACCGCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGGCAAATAAAAAGG CGTATGGACTTCTTTTCGCAATTTTTATATTTGAGGTTAACTTGGTATACTGCGGTAA AAGTACATGTAGCCAGGTCTTTAGGGGCCTTTCTGAGGCACAACTTTGTGGACATTG AAAATTACCCATCTAACTTACTTTTTGATATGGCAACAGAAATGACCACTCATTGTGGAT GTTTCCATGTGACTGATGAATGCAATAGCTCATATGCTCCAAATACATACTTGACTCTA GGACCTTCAGTCTTGGACTCACAAATAATGATATGCTCTGCACTTATTGTGCATCTAAAT GACAAAATCACTGTCTTTAACTAAGGGATGGCTAAATATCAACACAAGGCTCACT ATACGCTATTATAACATGCTTTAAATGCTTGCAACACACCGACTACCTTAAATTCATG GAGGTGATGATTCCTACAATATATATTGACGGCCTGCCTTATCACCTCCAACCTCCTTAA AACAGACGCTTCCACTTATAACCTGTCTCCTTCAACACACCTGGTAACACACACTGAAA CACAAACGGTATTTTCTGTTAACTATGATCCATTATATTGCTTCTTTCTTATTTCATA TTCTCCATCTAAATACCCATCCTTACTTACTGTCCCTCATGATTAACCTTTATTTCTCC CATCTACTACCGTCAACTTTAACTATATCACGGTTTTCTCATTGCTCCTACCGCCACC TTTATACATTACGCAATCACTCTCGCGGATCTTAAATTGCAAAACAACTCATCCCCCA CACACACCCACAAAACGTTCCACCTCACCGCTTCGCCTCCCTACCAACCCAAACATTGT TACCCACAATCCTCCACCTACTTCTATCGCTCCCCCCTT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_003940
Insert Size:	2950 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_003940.1 , NP_003931.1
RefSeq Size:	2738 bp
RefSeq ORF:	2592 bp
Locus ID:	8975
UniProt ID:	Q92995
Cytogenetics:	3q26.33
Domains:	UBA, UCH, zf-UBP
Protein Families:	Druggable Genome, Protease
Gene Summary:	<p>Deubiquitinase that mediates deubiquitination of target proteins such as BECN1, MITF, SKP2 and USP10 and is involved in various processes such as autophagy and endoplasmic reticulum-associated degradation (ERAD). Component of a regulatory loop that controls autophagy and p53/TP53 levels: mediates deubiquitination of BECN1, a key regulator of autophagy, leading to stabilize the PIK3C3/VPS34-containing complexes. Also deubiquitinates USP10, an essential regulator of p53/TP53 stability. In turn, PIK3C3/VPS34-containing complexes regulate USP13 stability, suggesting the existence of a regulatory system by which PIK3C3/VPS34-containing complexes regulate p53/TP53 protein levels via USP10 and USP13. Recruited by nuclear UFD1 and mediates deubiquitination of SKP2, thereby regulating endoplasmic reticulum-associated degradation (ERAD). Also regulates ERAD through the deubiquitination of UBL4A a component of the BAG6/BAT3 complex. Mediates stabilization of SIAH2 independently of deubiquitinase activity: binds ubiquitinated SIAH2 and acts by impairing SIAH2 autoubiquitination. Has a weak deubiquitinase activity in vitro and preferentially cleaves 'Lys-63'-linked polyubiquitin chains. In contrast to USP5, it is not able to mediate unanchored polyubiquitin disassembly. Able to cleave ISG15 in vitro; however, additional experiments are required to confirm such data.[UniProtKB/Swiss-Prot Function]</p>