

Product datasheet for **RC209550**

USP3 (NM_006537) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP3 (NM_006537) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	USP3
Synonyms:	SIH003; UBP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC209550 representing NM_006537
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGTGTCCACACCTGAGCTCCAGCTGCTGCATTGCTCCGACTCAGCCAAGTCCCCAACGGCTCCC
 CGTCGTCCTGGTCTGCAGCGTGTGCCGTCCAACAAAAGCCCTTGGGTCTGTTGACTTGTCAAGTGT
 CCACTGTGGAAGGTATGTGAATGGCCATGCAAAAAACATTATGAAGATGCACAAGTACCTTTAACCAAC
 CATAAGAAATCAGAAAAGCAAGATAAAGTTCAGCACACAGTATGTATGGATTGCAGTAGCTACAGTACAT
 ACTGTTATCGCTGTGATGTTTTGTGGTAAATGACACCAAGCTGGGACTGGTACAGAAAGTCAGAGAACA
 CTTACAGAACTTGAAAACCTCAGCTTTCACAGCTGACAGGCATAAGAAAAGAAAACCTTTGGAAAACCTCA
 AACTAAACAGCAAGTTATTAAGTAAATGGAAGCACCCTGCCATTTGTGCCACAGGCCTTCGGAAAT
 TGGGGAACACATGTTTCATGAATGCCATCCTTCAGTCACTCAGTAACATTGAGCAGTTTTGCTGTTATTT
 CAAAGAACTGCCCGCGTGGAGTTAAGGAATGGGAAAACAGCAGGAAGGGCGACATACCACACCAGGAGC
 CAAGGGGATAACAATGTGTCTTTGGTAGAAGAGTTTAGAAAAGACTCTGTGCTTTATGGCAAGGCAGCC
 AGACTGCATTTAGCCAGAGTCCTATTTTATGTTGTTTGGAAAGATTATGCCAACTTTAGGGGCTATCA
 ACAGCAGGACGCCCATGAATTCATGCGCTACCTTTGGACCACCTACACTTGAAGTTCAGGGCGGTTTC
 AACGGTGTTCGCCCTCAGCAATTCGACAGGAAATTCCTACTCTGTCTGCAAGTAAACAGTGTTCATAA
 ATGGAGCATCTACTGTTGTCACGGCTATATTCGGAGGCATTCTCCAAAATGAGGTTAACTGCCTCATATG
 TGGGACAGAATCTAGAAAGTTTATCCATTCTAGACCTTTCATTAGATATTCAGTCAAGTTCAGAAAGT
 AAGCGCTAAGAATCAAGAAAATGGACCAGTTTGTTCGTTACGAGATTGCTTCGCAGTTTTACCGACT
 TAGAAGAACTTGATGAGACAGATTATATATGTGCCATAAATGCAAAAAGAAAACAAAAGTCCACAAAAA
 GTTTTGGATTCAAAAACCTCAAGGTGCTATGCTTACATTTGAAAAGATTTTCATTGGACAGCATATTTA
 AGAAATAAAGTTGATACATACGTAGAATTTCCACTGAGAGGCCTAGACATGAAATGCTACTTACTAGAGC
 CTGAGAACAGTGGCCCGGAGAGCTGCCTGTATGACCTCGCCGCTGTGGTGGTGCACCATGGTTCGGGGT
 TGGTCTGGACATTACACAGCATACGCAACTCACGAAGGCCGCTGGTTCCTCAATGACAGTACTGTA
 AACTGACTGACGAGGAGACTGTGGTGAAGGCCAAGGCCATACCTTTTCTACGTGGAACACCAGGCCA
 AAGCTGGATCGGATAAACTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209550 representing NM_006537
 Red=Cloning site Green=Tags(s)

MECPHLSSVCIAPDSAKFPNGSPSSWCCSVCRSNKSPWVCLTCSSVHCGRYVNGHAKKHVEDAQVPLTN
 HKKSEKQDKVQHTVCMDCSSYSTYCYRCDFFVNDTKLGLVQKVREHLQNLNSAFTADRHKRRLLENS
 TLNSKLLKVNSTTAICATGLRNLGNTCFMNAIQSLSNIEQFCYFKELPAVELRNGKTAGRRTYHTRS
 QGDNNVSLVEEFRKTLCALWQGSQTAFSPELFFYVVKIMPFRGYQQQDAHEFMRYLLDHLHLELQGGF
 NGVSRSAIQENSTLSASNKCCINGASTVVTAFGGILQNEVNCLICGTESRKFDPFLDLSDIPSQFRS
 KRSKNQENGPVCSLRDCLRSFTDLEELDETEL YMCHKCKKKQKSTKFWIQKLPKVLCLHLKRFHWAYL
 RNKVDTYVEFPLRGLDMKCYLLEPENSGPESCLYDLAAVVVHHGSGVSGHYTAYATHEGRWFHNDSTV
 TLTDEETVVKAKAYILFYVEHQAKAGSDKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8120_f04.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_006537

ORF Size: 1560 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_006537.4](#)

RefSeq Size: 5606 bp

RefSeq ORF: 1563 bp

Locus ID: 9960

UniProt ID: [Q9Y6I4](#)

Cytogenetics: 15q22.31

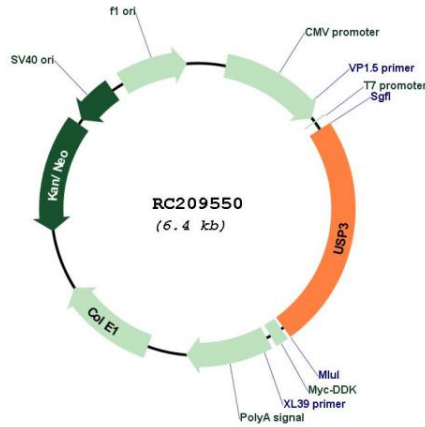
Domains: UCH, zf-UBP

Protein Families: Druggable Genome, Protease

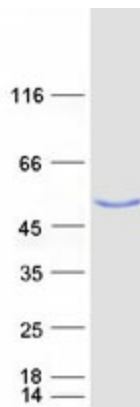
MW: 59.3 kDa

Gene Summary: Hydrolase that deubiquitinates monoubiquitinated target proteins such as histone H2A and H2B. Required for proper progression through S phase and subsequent mitotic entry. May regulate the DNA damage response (DDR) checkpoint through deubiquitination of H2A at DNA damage sites. Associates with the chromatin.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC209550



Coomassie blue staining of purified USP3 protein (Cat# [TP309550]). The protein was produced from HEK293T cells transfected with USP3 cDNA clone (Cat# RC209550) using MegaTran 2.0 (Cat# [TT210002]).