

Product datasheet for **RG209550**

USP3 (NM_006537) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	USP3
Synonyms:	SIH003; UBP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG209550 representing NM_006537
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGAGTGTCCACACCTGAGCTCCAGCGTCTGCATTGCTCCGACTCAGCCAAGTCCCCAACGGCTCCC
 CGTCGTCTGGTGTGACGCGTGTGCCGGTCCAAACAAAGCCCTTGGGTCTGTTTGACTTGTTCAGGTGT
 CCACTGTGGAAGGTATGTGAATGGCCATGCAAAAAACATTATGAAGATGCACAAGTACCTTTAACCAAC
 CATAAGAAATCAGAAAAGCAAGATAAAGTTCAGCACACAGTATGTATGGATTGCAGTAGCTACAGTACAT
 ACTGTTATCGCTGTGATGATTTTGTGGTTAATGACACCAAGCTGGGACTGGTACAGAAAGTCAGAGAACA
 CTTACAGAACTTGAAAACTCAGCTTTCACAGCTGACAGGCATAAGAAAAGAAAACTTTTGAAAACTCA
 ACATAAACAGCAAGTTATTAAGTAAGTGAAGCACCAGTCCATTTGTGCCACAGGCCTTCGGAATT
 TGGGGAACACATGTTTCATGAATGCCATCCTTCAGTCACTCAGTAACATTGAGCAGTTTGTGTTATTT
 CAAAGAACTGCCCGCTGGAGTTAAGGAATGGGAAACAGCAGGAAGGCGGACATACCACACCAGGAGC
 CAAGGGGATAACAATGTGTCTTTGGTAGAAGAGTTTAGAAAGACACTCTGTGCTTTATGGCAAGGCAGCC
 AGACTGCATTTAGCCAGAGTCTTATTTTATGTTGTTTGAAGATTATGCCAACTTTAGGGGCTATCA
 ACAGCAGGACGCCCATGAATTCATGCGCTACCTTTGGACCACCTACACTTGGAACTTCAGGGCGGTTTC
 AACGGTGTTCCTCGCTCAGCAATTCATGAGGAGTCTACTCTGTCTGCAAGTAACAAGTGTTCATAA
 ATGGAGCATCTACTGTTGTACGGCTATATTCGGAGGCATTCTCCAAATGAGGTTAACTGCCTCATATG
 TGGGACAGAATCTAGAAAGTTTGATCCATTCTAGACCTTTTATTAGATATTCCAAGTCAGTTCAGAAGT
 AAGCGCTCTAAGAATCAAGAAATGGACCAGTTTGTTCGTTACGAGATTGTCTTCGAGTTTACCAGCT
 TAGAAGAACTTGATGAGACAGAGTTATATATGTGCCATAAATGCAAAAAGAAAAAGTCCACAAAAA
 GTTTTGGATTCAAAAACTACCAAGGTGCTATGCTTACATTTGAAAAGATTTCATTGGACAGCATATTTA
 AGAAATAAAGTTGATACATACGTAGAATTTCCACTGAGAGGCCTAGACATGAAATGCTACTTACTAGAGC
 CTGAGAACAGTGGCCCGGAGAGCTGCCTGTATGACCTCGCCGCTGTGGTGGTGCACCATGGTCCGGGGT
 TGGTTCTGGACATTACACAGCATACGCAACTCACGAAGGCCGCTGGTCCACTTCAATGACAGTACTGTA
 ACAGTCACTGACGAGGAGACTGTGGTGAAGCGAAGGCCTACATCTTTTCTACGTGGAACACCAGGCCA
 AAGCTGGATCGGATAAACTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209550 representing NM_006537
 Red=Cloning site Green=Tags(s)

MECPHLSSSVCIAPDSAKFPNGSPSSWCCSVCRSNKSPWVCLTCSSVHCGRYVNGHAKKHYEDAQVPLTN
 HKKSEKQDKVQHTVCMDCSSYSTCYRCDFFVNDTKLGLVQKVREHLQNLNSAFTADRHKRKLLENS
 TLNSKLLKVNSTTAICATGLRNLGNTCFMNAIQSLSNIEQFCYFKELPAVELRNGKTAGRRTYHTRS
 QGDNNVSLVEEFRKTLALWQGSQTAFSPESLFYVVKIMPFRGYQQDAHEFMRYLLDHLHLELQGGF
 NGVSRSAIQENSTLSASNKCCINGASTVVTAFGGILQNEVNCLICGTESRKFDPLDLSDIPSQFRS
 KRSKNQENGPVCSLRDCLRSFTDLEELDETELYMCHKCKKKQKSTKKFWIQKLPKVLCLHLKRFHWTAYL
 RNKVDTYVEFPLRGLDMKCYLLEPENS GPESCLYDLAAVVVHHGSGVSGHYTAYATHEGRWFHNDSTV
 TLTDEETVVKAKAYILFYVEHQAKAGSDKL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-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.

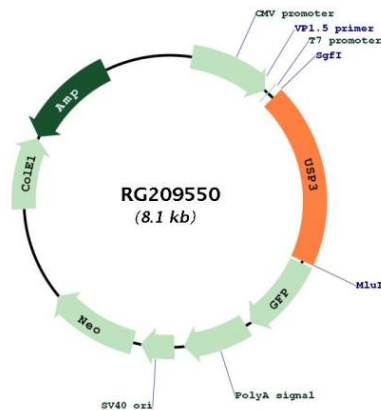
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

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
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 RG209550