

Product datasheet for **RG234212**

USP3 (NM_001256702) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP3 (NM_001256702) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	USP3
Synonyms:	SIH003; UBP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234212 representing NM_001256702
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGTGTCCACACCTGAGCTCCAGCTGTGCATTGCTCCGACTCAGCCAAGTCCCCAACGGCTCCC
 CGTCGTCCTGGTGTGCAGCGTGTGCCGTCCAACAAAAGCCCTTGGGTCTGTTTGACTTGTCAAGTGT
 CCACTGTGGAAGTTATCGCTGTGATGATTTTGTGGTTAATGACACCAAGCTGGGACTGGTACAGAAAGT
 AGAGAACACTTACAGAACTGGAAAACCTCAGCTTTCACAGCTGACAGGCATAAGAAAAGAAAACCTTTGG
 AAAACTCAACACTAAACAGCAAGTTATTAAGAAAGTAAATGGAAGCACCCTGCCATTTGTCCACAGGCC
 TCGGAATTTGGGGAACACATGTTTCATGAATGCCATCCTTCAGTCACTCAGTAACATTGAGCAGTTTTGC
 TGTTATTTCAAAGAACTGCCCGCTGGAGTTAAGGAATGGGAAAACAGCAGGAAGGCGGACATACCACA
 CCAGGAGCCAAGGGGATAACAATGTGTCTTTGGTAGAAGAGTTTAGAAAAGAACTCTGTGCTTTATGGCA
 AGGCAGCCAGACTGCATTTAGCCAGAGTCCTATTTTATGTTGTTTGGAAAGATTATGCCAACTTTAGG
 GGTATCAACAGCAGGACGCCATGAATTCATGCGCTACCTTTTGGACCCTTACTTGGAACTTCAGG
 GCGGTTTCAACGGTGTTCCTCGCTCAGCAATTCGACAGGAGAATTCTACTCTGTCTGCAAGTAACAAGT
 TTGCATAAATGGAGCATCTACTGTTGTCACGGCTATATTCGGAGGCATTCTCAAATGAGGTTAACTGC
 CTCATATGTGGGACAGAACTAGAAAAGTTTATCCATTCTAGACCTTTCATTAGATATTCAAAGTCAGT
 TCAGAAGTAAGCGCTCTAAGAATCAAGAAAATGGACCAGTTTGTTCGTTACGAGATTGTCTTCGAGTTT
 TACCGACTTAGAAGAACTTGATGAGACAGAGTTATATATGTGCCATAAATGCAAAAAGAAAACAAAGTCC
 ACAAAAAGTTTTGGATCAAAAACCTACCAAGGTGCTATGCTTACATTTGAAAAGATTTTATTGGACAG
 CATATTTAAGAAAATAAGTTGATACATACGTAGAATTTCCACTGAGAGGCCTAGACATGAAATGCTACT
 ACTAGAGCCTGAGAACAGTGGCCCGAGAGCTGCCTGTATGACCTCGCCGCTGTGGTGGTGCACCATGGT
 TCCGGGTTGGTTCTGGACATTACACAGCATACGCAACTCACGAAGGCCGCTGGTTCCACTTCAATGACA
 GTACTGTAACACTGACTGACGAGGAGACTGTGGTGAAGGCGAAGGCCTACATCTTTTCTACGTGGAACA
 CCAGGCCAAAGCTGGATCGGATAAACTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234212 representing NM_001256702
 Red=Cloning site Green=Tags(s)

MECPHLSSVCIAPDSAKFPNGSPSSWCCSVCRSNKSPWVCLTCSSVHCGSYRCDDFVVNDTKLGLVQKV
 REHLQNLNSAFTADRHKKRKLLENSTLNSKLLKVNSTTAICATGLRNLGNTCFMNAIQLSLNIEQFC
 CYFKELPAVELRNGKTAGRRTYHTRSQGDNNVSLVEEFRKTLCALWQGSQTAFSPESLFYVWVKIMPNFR
 GYQQDAHEFMRYLLDHLHLELQGGFNGVSRSAIQLQENSTLSASNKCCINGASTVVTAFIFGGILQNEVNC
 LICGTERKFDPFLLDLSLDIPSQFRSKRSKNQENGPVCSLRDCLRSFTDLEELDETELYMCHKCKKKQKS
 TKKFWIQKLPKVLCLHLKRFHWTAYLRNKVDTYVEFPLRGLDMKCYLLEPENSGPESCLYDLAAVVVHGH
 SGVGSGHYAYATHEGRWFHNDSTVTLTDEETVVKAKAYILFYVEHQAKAGSDKL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001256702

ORF Size: 1428 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_001256702.1](#), [NP_001243631.1](#)

RefSeq Size: 5474 bp

RefSeq ORF: 1431 bp

Locus ID: 9960

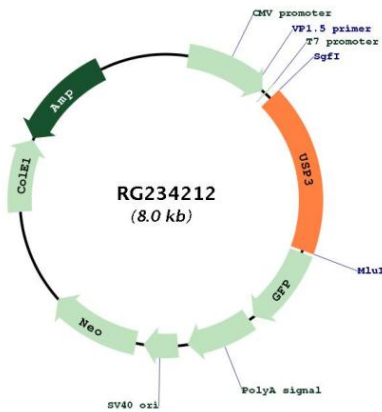
UniProt ID: [Q9Y6I4](#)

Cytogenetics: 15q22.31

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 RG234212