

Product datasheet for **RG232579**

USP2 (NM_001243759) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP2 (NM_001243759) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	USP2
Synonyms:	UBP41; USP9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232579 representing NM_001243759 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTGTGCCGGTTCGACTCGTCCATACTCCAAGAAGAGGCAGAATTCTAAGAGTGCCAGGGTCTGG
CTGGTCTTCGAAACCTTGGGAACACGTGCTTCATGAACCAATTCTGCAGTGCCTGAGCAACACTCGGGA
GTTGAGAGATTACTGCCTCCAGAGGCTCTACATGCGGGACCTGCACCACGGCAGCAATGCACACACAGCC
CTCGTGGAAGAGTTTGCAAAATAATTCAGACCATATGGACTTCATCCCCAATGATGTGGTGAGCCCAT
CTGAGTTCAAGACCCAGATCCAGAGATACGCACCGCGCTTTGTTGGCTATAATCAGCAGGATGCTCAGGA
GTTCTTCGCTTTCTTCTGGATGGGCTCCATAACGAGGTGAACCGAGTGACTGAGACCTAAGTCCAAC
CCTGAGAACCTCGATCATCTTCTGATGACGAGAAAGGCCGACAGATGTGGAGAAAATATCTAGAACGGG
AAGACAGTAGGATCGGGGATCTCTTTGTTGGGAGCTAAAGAGCTCGTGACGTGTACAGATTGTGGTTA
CTGTTCTACGGTCTTCGACCCCTTCTGGGACCTCTCACTGCCATTGCTAAGCGAGGTTATCCTGAGGTG
ACATTAATGGACTGCATGAGGCTCTTACCAAAGAGGATGTGCTTGATGGAGATGAAAAGCCAACATGCT
GTCGCTGCCGAGGCAGAAAACGGTGTATAAAGAAGTCTCCATCCAGAGGTTCCCAAAGATCTTGGTGCT
CCATCTGAAGCGGTTCTCAGAATCCAGGATCCGAACAGCAAGCTCACAACATTTGTGAACCTTCCCCCTA
AGAGACCTGGACTTAAGAGAATTTGCCTCAGAAAACCAACCATGCTGTTTACAACCTGTACGCTGTGT
CCAATCACTCCGGAACCCATGGGTGGCCACTATACAGCTACTGTCCGAGTCCAGGGACAGGAGAATG
GCACACTTTCAACGACTCCAGCGTCACTCCCATGTCTCCAGCCAAGTGCCGACCAGCGACGCTACCTG
CTCTTCTACGAACTGGCCAGCCGCCCTCCGAATG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232579 representing NM_001243759
 Red=Cloning site Green=Tags(s)

MLVPGSTRPYSKKRQNSKSAQGLAGLRNLGNTCFMNSILQCLSNTRRELRDYCLQRLYMRLHHSNAHTA
 LVEEFAKLIQTIWTSPPNDVVPSEFKTIQRYAPRFVGYNQDQAQEFLLRFLDGLHNEVNRVTLRPKSN
 PENLDHLPDDEKGRQMRKYLEREDSRIGDLFVGQLKSSLTCTDCGYCSTVDFPFDLWLSLPIAKRGYPEV
 TLMDCMRLFTKEDVLDGDEKPTCCRCRGRKRCIKKFSIQRFPKILVHLKRFSESRIKSLTTFVNFPL
 RDLDLREFASENTHAVYNLYAVSNHSGTMMGGHYTAYCRSPGTGEWHTFNDSSVTPMSSSQVRTSDAYL
 LFYELASPPSRM

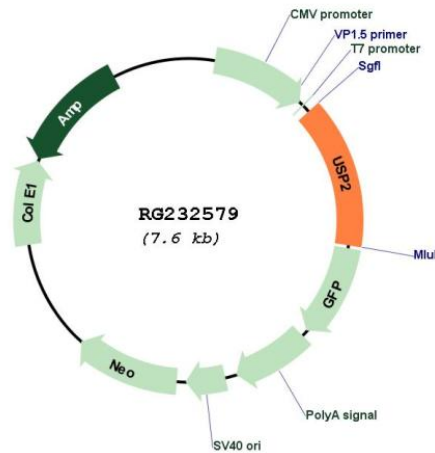
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001243759

ORF Size:	1086 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<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_001243759.2
RefSeq Size:	2933 bp
RefSeq ORF:	1089 bp
Locus ID:	9099
UniProt ID:	O75604
Cytogenetics:	11q23.3
Protein Families:	Protease
Gene Summary:	<p>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]</p>