

Product datasheet for **RG219178**

USP4 (NM_199443) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP4 (NM_199443) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	USP4
Synonyms:	UNP; Unph
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG219178 representing NM_199443
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAAGGTGGAGGCTGCCGTGAGCGACCGGATGCGGAGACTCAGAAGTCCGAGCTTGACCCTTAA
 TGAGACCACACTCCAACGCGGGGCGCAGTGGTATCTTATTGACAGCCGGTGGTTCAAGCAGTGGAAAGAA
 GTATGTGGGCTTTGACAGCTGGGACATGTACAATGTGGGTGAACATAACCTATTTCTGGCCCAATAGAC
 AACTCTGGGCTATTTTCAGATCCTGAGAGTCAGACCTTAAAAGAACAACCTAATTGATGAATTGGACTATG
 TATTGGTCCCTACCGAGGCGTGGAAATAACTACTAACTGGTACGGCTGTGTAGAAGGCCAGCAACCCAT
 CGTCAGAAAAGTTGTGGAGCATGGCCTGTTTGTCAAGCACTGCAAAGTCGAGGTGATTTTGTGAACTG
 AAGCTCTGTGAGAACAGTGACCCACCAATGTGCTGAGTTGCCATTTTCAGCAAGGCAGACACCATTGCAA
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 CATGAGCAACACCTACGAGCAGTTGAGCAAGCTAGACAACACTGTCCAGGATGCTGGGCTATACCGGGT
 CAGGTGCTAGTAATTGAGCCTCAAAATGAAGATGGCACATGGCCAGGCAGACCTTGCAGTCAAATGGAT
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 TGGAAACCTGGGAAACACCTGCTTCATGAACCTCCGCTTTGCGAGTGTGGAGCAACACTGCACCCTGACT
 GACTACTTTCTCAAAGATGAGTATGAAGCCGAAATCAACAGAGACAACCCCTCTGGGGATGAAAGGGGAAA
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 CAGGGAGAGGAAGTCCAGGCCATCAAGCACTTCCCTCCGCATCAGCGCTATATGGGCAGCCACTATTGCTT
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 CAGCTGTGAAGGAGAAGATGAGGAAGAAATGGAGCATCAGGAAGAAGGCAAGAGAGCAGCTTTCAGAAACA
 GAAGGCAGTGGGGAAGATGAGCCAGGAAATGACCCAGTGAAGCCACCCAAAAGAAGATCAAAGGCCAGC
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 TGACTAAAGCAGCTTATGTGCTATTTTACCAACGTCGAGATGATGAATTTTATAAGACACCTTCACTTAG
 CAGTTCTGGTTCCTCTGATGGAGGGACACGACCAAGCAGCTCTCAGCAGGGCTTTGGGGATGATGAGGCT
 TGCAGCATGGACCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG219178 representing NM_199443
 Red=Cloning site Green=Tags(s)

MAEGGGCRERPDAETQKSELGPLMRTTLQRGAQWYLIDSRWFKQWKKYVGFDSWDMYVNGEHNLFPGPID
 NSGLFSDPESQTLKEHLIDELDYVLVPTAEWNKLLNHWYGCVEGQQPIVRKVVEHGLFVKHCKVEVYLLEL
 KLCENS DPTNVL SCHFSKADTIATIEKEMRKL FNIPAE RETRL WNKYMSNTYEQL SKLDNTVQDAGLYQG
 QVLVIEPQNE DGTWPRQTLQSN GSGF SASYN CQEPSSHIQPGLCGLGNLGNTCFMNSALQCL SNTAPLT
 DYFLKDEYEA EINRDNPLGMKGEIAEAYAE LKQMW SGRDAHVAPRMFKTQVGRFAPQFSGYQQDSQEL
 LAFLLDGLHEDLNRVKKKPYLELKDANGRPDAVVAKEAWENHRLRND SVI VDTFHGLFKSTLVCPECAKV
 SVTFDPFCYLTLPLPKKDRVMEVFLVPADPHCRPTQYRVTVPLMGAVSDLCEAL SRLSGIAAENMVAD
 VYNHRFHKIFQMDEGLNHIMPRDDIFVYEV CSTSV D GSECVTL P VYFRERKSRPSSTSSASALYQQPLLL
 SVPKHKL TLES L YQAVCDRI SRYVKQPLPDEF GSSPLEPGACNGSRNSCEGEDEEEME HQE E GKEQL SET
 EGS GEDEP GNDPSETTQKKIKGQPCPKRLFTFSLVNSYGTADINSLAADGKLLKLSRSTLAMDWSETR
 RLYYDEQESEAYEKHVSMLQPQK KKTVALRDCIELFTT METLGEHDPWYCPNCKKHQATK KFDLWSL
 PKILVVHLKRF SYNRYWRDKLDTVVEFPIRGLNMSEFVCNL SARPYVYDL IAVSNHYGAMGVGHYTA YAK
 NKLN GKWY YFDDSNVSLASEDQIVTKAAYVLFYQRRDDEFYKTPSLSSSGSSDGGTRPSSSQQGFGDDEA
 CSMDTN

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

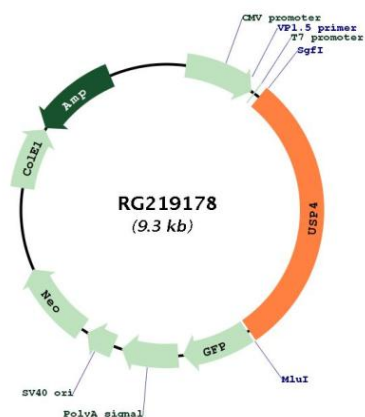


ACCN:

NM_199443

ORF Size:	2748 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:	<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_199443.3
RefSeq Size:	3979 bp
RefSeq ORF:	2751 bp
Locus ID:	7375
UniProt ID:	Q13107
Cytogenetics:	3p21.31
Protein Families:	Druggable Genome, Protease
Gene Summary:	The protein encoded by this gene is a protease that deubiquitinates target proteins such as ADORA2A and TRIM21. The encoded protein shuttles between the nucleus and cytoplasm and is involved in maintaining operational fidelity in the endoplasmic reticulum. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RG219178