

Product datasheet for **RC218309**

USP1 (NM_001017416) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP1 (NM_001017416) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	USP1
Synonyms:	UBP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC218309 representing NM_001017416
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTGGTGTACATACCTAGTAAAAGTAATGGACTTTCAAGAGGTAGCCCTTCAAAGAAAAACAGACTTT
 CCTTAAAGTTTTTTCAGAAAAAGGAACTAAGAGAGCTTTGGATTTCACAGATTCTCAAGAAAATGAAGA
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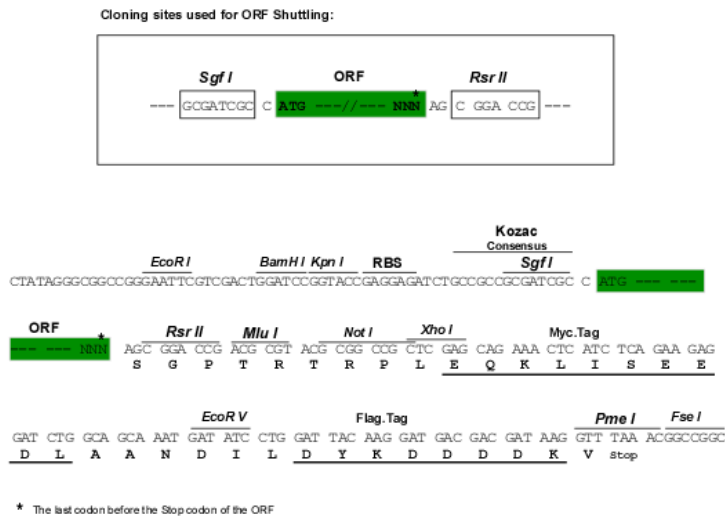
Protein Sequence: >RC218309 representing NM_001017416
Red=Cloning site Green=Tags(s)

MPGVIPSESNGLSRGSPSKNRLSLKFFQKKETKRALDFDTSQENEEKASEYRASEIDQVVPAAQSSPIN
CEKRENLLPFVGLNNLGNTCYLNSILQVLYFCPGFKSGVKHLFNIISRKKEALKDEANQKDKGNCKEDSL
ASYELICSLQSLIISVEQLQASFLLNPEKYTDELATQPRRLNLTRELNPMYEGYLQHDAQEVLQCILGN
IQETCQLLKKEEVKNVAELPTKVEEIPHPKEEMNGINSIEMDSMRHSEDFKEKLPKGNKGRKSDTEFGNM
KKKVKLSKEHQSLLENQRQTRSKRKATSDTLESPPKIIIPKYISENESPRPSQKKSrvKINWLKSATKQPS
ILSKFCSLGKITTNQGVKGQSKENECDEEDLGKCESDNTTNGCGLESPGNTVTPVNVNEVKPINKGEEQ
IGFELVEKLFQGGQLVLRTRCLECESLTERREDFQDISVPVQEDEL SKVEESSEISPEPKTEMKTLRWAI
QFASVERIVGEDKYFCENCHHYTEAERSLLFDKMPEVITIHLCFAASGLEFDCYGGGLSKINTPLL TPL
KLSLEEWSTKPTNDSYGLFAVVMHSGITISSGHYASVKVTDLNSLELDKGNFVVDQMCEIGKPEPLNEE
EARGVVENYNDEEVSIRVGGNTQPSKVLNKNVETIGLLGGQKSKADYELYNKASNPKVASTAFAENRN
SETSDTTGTHESDRNKESDQTGINISGFENKISYVVQSLKEYEGKWLDFDDSEVKVTEEKDFLNSLSPS
TSPTSTPYLLFYKKL

SGP TRRRLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2901_e07.zip

Restriction Sites: Sgfl-RsrII

Cloning Scheme:


ACCN: NM_001017416

ORF Size: 2355 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_001017416.1](#), [NP_001017416.1](#)

RefSeq Size: 3424 bp

RefSeq ORF: 2358 bp

Locus ID: 7398

UniProt ID: [O94782](#)

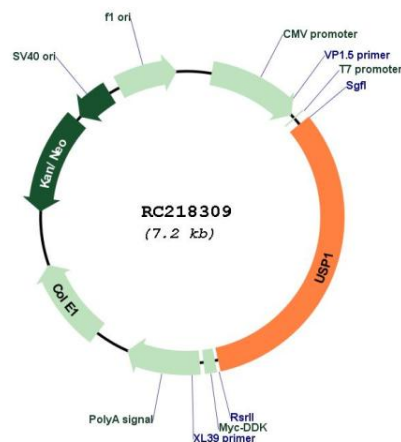
Cytogenetics: 1p31.3

Protein Families: Protease

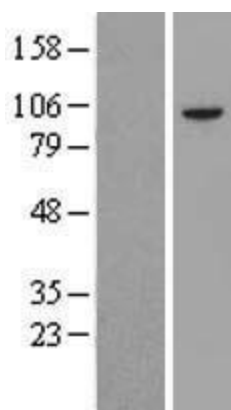
MW: 88 kDa

Gene Summary: This gene encodes a member of the ubiquitin-specific processing (UBP) family of proteases that is a deubiquitinating enzyme (DUB) with His and Cys domains. This protein is located in the cytoplasm and cleaves the ubiquitin moiety from ubiquitin-fused precursors and ubiquitylated proteins. The protein specifically deubiquitinates a protein in the Fanconi anemia (FA) DNA repair pathway. Alternate transcriptional splice variants have been characterized. [provided by RefSeq, Jul 2008]

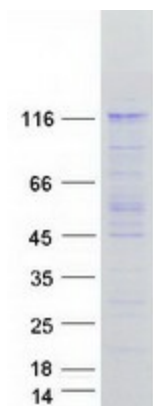
Product images:



Circular map for RC218309



Western blot validation of overexpression lysate (Cat# [LY422785]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218309 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified USP1 protein (Cat# [TP318309]). The protein was produced from HEK293T cells transfected with USP1 cDNA clone (Cat# RC218309) using MegaTran 2.0 (Cat# [TT210002]).