

Product datasheet for **RN214933**

Usp1 (NM_001015015) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp1 (NM_001015015) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Usp1
Synonyms:	MGC108773
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN214933 representing NM_001015015
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTGGCGTCATACCTAGTAAAAGTAAATGGGCTTTCAGAGGCGAGTCCATCCAAGAAGAACAGGCTGT
 CTTTGAAGTTTTTTCAGAAAAAGGAACTAAAAGAGCCTTAGACTTCACTGATTCTCAAGAAGATGAAGA
 AAAAGCTTCTGAATATAGAGGATCTGAGATTGATCAAGTTGTTCCCTGCTGCACAGTCCACCAAGTAAAGC
 TGTGAGAAGAGAGAAAACCTGTTACCGTTTGTGGGACTGAATAACCTTGGCAACACTTGTATCTGAATA
 GTATTCTCAGGTGTTGACTTTTGTCTGGCTTCAAGGCTGGAGTGAAGCACTTATTTAATATTATTTT
 AAGGAAGAAGAAGCTCTGAAGGATGACTCTATTCAGAAGGATAAGGGAAGCTGCAAGAAGATCCTTTG
 GCAAGTTATGAGCTTATATGCAGTTTACAGTCCATAAATCTCAGTTGAACAGCTTCAAGCTAGTTTTT
 TCTTAAATCCAGAAAAATACAGATGAACTTGCACACAGCCAAAGGCGACTGCTTAACACCTGAGGGA
 ACTCAACCTATGTATGAAGGCTATCTCCAGCAGATGCACAGGAAGTGCTACAGTGTATTCTGGGAAAC
 ATCAAGAACATGCCAACTCCTAAAAAAGAAGAAATAAAAACTTGACTGAATTTTCCAGCAAGGTTG
 AAGAAAAATCTTTCAGAAAGAGGAGACAGGTGGGATTAGCAGCACAGAGACTGACAGTACGAGGAATCT
 GGACGACCTCAAAGAACAACCTCCAAAAGGGAAGTGGAAAAGAAAGAGTGACGGAGAATCGGGGAACATG
 AAGAAAAAGGTTAACTGTCCAGGGAATCCAGCCATTGGAAGAAAACCAGAGACAAACCAGATCGAAAA
 GAAAAGCTACCGGAGACACACTAGAGGCTTCTCCTAAAATCATCCCAAGTGTGTTTCTGAAAATGAGAG
 TGCAAAGCCCTCAGAGAAGAAATCCAAAGTTAAAATAAATTGGTTAAAGCCGGCCACTAAGCAGCCGAGC
 ATCTCCAGGAAGTAGCGTCACACCTGTGGACAGTGTGAAGCTAAGTCCATAAACAAAGGTGCAGAGCAG
 ATTGTTTTGAAGTAGTAGAGAAATGTTTCAAGGTCAGTACTGAGGACTCGTTGTTTGAATGTG
 AAAGCTTAACAGAAAGAAGAGAAGACTTTCAGGATATTAGTGTCCCGGTACAAGAAGATGAACTTCTAA
 AGTCGAGGAGAGCTCTGAGATTTCTCCAGAGCCAAAACAGAAATGAAGACCCTGAGATGGGCAATTTCA
 CAGTTTGTCTCAGTGGAGAGAATTGTAGGAGAGGATAAATATTTCTGTGAAAATTGCCATCATTATACGG
 AAGCAGAGCGAAGTCTCTGTTTGATAAAAATGCCTGAAGTTATCACTATTCATCTGAAGTCTTTGCTGC
 TAGTGGCTTGAGTTTGATTGTTATGGTGGTGGACTTTCCAAGATCAACACTCCTTTATTGACACCTCTT
 AAAGTGTACTAGAAGAATGGAGCACAAGCCGACTAATGACAGCTATGGATTATTTGCTGTTGTGATGC
 ACAGTGGCATTACTATTAGTAGTGGGCACTATACTGCATCTGTTAAAGTCACTGACCTTAACAGTCTAGA
 ACTAGATAAAGGGCAATTTTGTGGTTGACCAGATGTGTGAGATAGGTAAGCCAGAGCCACTGAATGAGGAG
 GAAGCAAGGGGGACGGCTGAAAATTATGACGACGAAGTATCAATTAGAGTTGGTGGTAATGCCAGCCAA
 GTAAGTTTTTGAACAAAAAAATGTAGAAGGATTGGACTTCTTGGAGGACAGAAAGCAAAAGCAGATTA
 TGAGCTGTGCAGCAAAGCATCTAATCCTGAGAAAGTTGTCTGGGACACCATTCACTGACAGTAGAAATTTCT
 GAACTAATGATACTAACGGGACCCAGGAATCTGACAGGAGCAAGGAGTCCAGTGACCAACAGGCATTA
 ACGTGAGTGGACTGGAGAACAAAATTTCTATGTAGTGCAAAGCTTAAAGGAGTACGAGGGGAAGTGTT
 GCTCTTTGATGACTCTGAAGTAAAAGTTACAGAAGAGAAAAGACTTCTGAATTTCTTTCCCTTCTACA
 TCTCCTACATCTACTCCCTACTTGCTATTTTATAAAAACTA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001015015
Insert Size: 2355 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_001015015.1</u> , <u>NP_001015015.1</u>
RefSeq Size:	3563 bp
RefSeq ORF:	2355 bp
Locus ID:	313387
UniProt ID:	<u>Q569C3</u>
Cytogenetics:	5q33
Gene Summary:	Negative regulator of DNA damage repair which specifically deubiquitinates monoubiquitinated FANCD2. Also involved in PCNA-mediated translesion synthesis (TLS) by deubiquitinating monoubiquitinated PCNA. Has almost no deubiquitinating activity by itself and requires the interaction with WDR48 to have a high activity.[UniProtKB/Swiss-Prot Function]