

Product datasheet for MC223359

Usp28 (NM_175482) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Usp28 (NM_175482) Mouse Untagged Clone
 Tag: Tag Free
 Symbol: Usp28
 Synonyms: 9830148O20Rik; AU022237; mKIAA1515
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >MC223359 representing NM_175482
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGACTGCGGAGCTGCAGCAGGACGACTCGGCGGGGGCGGCGGACGGCCATGGCTCGAGCTGCCAGATGC
 TGTTAAATCAGCTGCGAGAAATCACAGGCATCCAGGATCCTTCTTTCTCATGAAGCATTAAAGGCCAG
 TAATGGTGACATACCCAGGCTGTCAGCCTTCTCACAGACCAAAGAGTTAAGGAGCCAGTCACGACACA
 ACTGCTGCAGAACCATCTGAAGTAGAAGAGAGTGTACCAGCAAAGATCTTTAGCAAAAGTGATAGACC
 TCACTCACGACAACAAAGATGACCTGCAGGCAGCCATTGCCTTGAGTCTCCTGGAGTCTCCTAACATTCA
 GGCTGACAACAGAGATCTTAATAGAGCGCATGAGGCTAACTCTGCAGAACTAAACGCTCAAAGAGAAAA
 CGCTGTGAAGTTGGGGAGAAAACCACAATCCCAATAACTGGAGGAGAGTGGATGGTTGGCCAGTTGGGC
 TGAAAAATGTTGGCAACACATGTTGGTTCAGTGTGTTATTCAGTCTCTTTTCAGTTGCCTGAATTTGC
 AAGACTTGTTCAGTTATAACCTGCCACAGAACATCCTTAAAAATTGTCGAAGTCACACTGAAAAGAGA
 AATATCATGTTTATGCAAGAGCTTCAGTATTTATTTGCTCTGTTGTTGGGATCAAATCGAAAATTTGTAG
 ACCCTTTCGAGCCCTGGATCTACTGAAGGGAGCCTCCGATCATCCGAGGAGCAGCAGCAAGATGTGAG
 TGAATTCACACACAAGCTCCTGGATTGGCTGGAGGATGCGTTCAGCTAGCTGTTAATGTTAACAGCCAT
 CTCAGGAATAAATCTGAAAATCCCATGGTGCAGCTATTCTACGGTACTTTTCTGACAGAAGGGGTCGGAG
 AAGGAAAGCCCTTTTGTAAACATGAGACCTTCGGCCAGTATCCTCTTCAGGTAACCGTTACCACAACCT
 AGACGAATGTTTGAAGGGGCCATGGTGAAGGTGACATCGCGCTGCTTCTTCGGATCGTTCCTGTAAG
 TATGGGCAGGAGCGTTGGTTTACAAAGCTGCCTCCAGTGTGACCTTTGAACTCTCCAGATTTGAGTTTA
 ATCAGTCTCTGGGCAGCCTGAAAAATTCATAATAAGCTGGAATTTCTCAGATTATCTATATGGATAG
 GTACATGTATAAGAGCAAAGAGCTTATCCGAAGTAAGAGAGAGAGCGTTCGGAAGTTGAAGGAGGAATA
 CAAGTTCTGCAGCAGAAGTTAGAAAGGTATGTGAAGTACGGCTCGGGCCATCTCGGTTCCCACTCCCCG
 ACATGTTGAAATACGTTATTGAATTTGCCAGTACAAAACCTGCCTCTGAAAGCTGTCTGTCTGGAAGTGC
 TGAGCATGTGACATTACCACTTCCCTCGGTGCACTGCCGATTTCTGACCTCACACCAAGGAAAGTTCA
 AGTCCAGAAAGCTGCTCTCAGAATGCTGGAAGTACCTTTTCTCTCCAGAAGATGCTCTTCCAGCTCTG



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AGGGGATGAATGGGCCATTTACCTCTCCTCACTCGTCTCTGAAAACGCCTGCACCCCAGCTCCTCGGAC
 AGTCACAGATGAAGAAATGAACCTCGTTAAGACCTGTCTTCAGAGGTGGCGGAGTGAAATTTGAACAGGAT
 ATACAAGACCTAAAGAACTGTATCTCGAGCAGCACGAAGGCGATTGAGCAGATGTACTGTGACCCTCTTC
 TTCGTGAGGTGCCTTATCGCTTACATGCAGTCTTGTTCACGAAGGACAAGCCAGTGCAGGACACTACTG
 GGCATACATCTACAACCAGCCCCGGCAGACCTGGCTCAAATAACAACGACATCTCTGTTACTGAGTCTTCC
 TGGGAGGAACTTGAAGAGATTCTTACGGGGCCCTGAGAAATGTCAGCGCCTACTGCTTGATGTATATCA
 ATGACAACCTTGGCCCACTTCAGTGCAGAGGCATCTTCTAATGAATCTGATGAGACTGCAGGAGAAGTGGA
 AGCCCTGTCTGTGGAACCTCAGGCAGTACATTCAGGAAGATAACTGGAGGTTTCAGCAAGAGGTGGAGGAA
 TGGGAGGAAGAACAGTCCTGTAAGATCCCACAGATGGAGTCTCCCGAACTCTTCTCACAGGATTTCT
 CCACATACAAGAGTCTCCAGCAGTGTCTCTCATGAGGTCCGATGCTTGTCTTCTGAGCATGCTGTGAT
 TGCAAAAGAACAGACTGCCCAGGCAATTGCCAACACAGCTCATGCCTACGAGAAGAGTGGTGTAGAAGCA
 GCCTTGAGTGAGGCATTTTCATGAGGAGTACTCCAGGCTCTATCAGCTTGCCAAAGAGACACCCACCTCTC
 ACAGTGACCCTCGCCTTCAGCATGTTCTTGTCTACTTTTTCCAAAATGAAGCACCCAAGAGGGTAGTAGA
 ACGGACCCTTCTGGAACAGTTTTCGGATAGAAACCTTAGCTATGATGAGAGATCTATCAGTATCATGAAG
 GTGGCTCAGGCCAAATTGATGGAATTGGTCCAGATGACATGAACATGGAAGAGTATAAGAGGTGGCATG
 AAGATTATAGTCTGTTCCGAAAGGTGTCTGTGTACCTTCTAACGGCCTGGAACTCTTCCAAAAGGAAA
 GTACCAGGAAGCATTGTCTACCTGGTGTACGCATACCAGAGCAACGCTGGCCTGCTGGTGAAGGGGCC
 CGAAGGGGCGTGAAGGAGTCTGTGATTGCCTTATACCGCAGAAAATGCCTTCTGGAGCTGAATGCCAAGG
 CTGCTTCTTTTTGAAACAAAATGACGACCATTCTGTAACAGAGGGCATTAAATGTAATGAATGAGTTGAT
 CATTCCCTGCATCCACCTGATCATTAAATACGACATCTCCAAGGACGACCTCGATGCCATCGAGGTCATG
 AGGAACCACTGGTGTCTTACCTGGGGAAGGATATTGCAGAGAATCTGCAGCTGTGCTTAGGAGAGTTCC
 TACCCAGGCTTCTAGATCCTTCTGCAGAAATCATCGTCTAAAGGAGCCTCCAACATTCGACCGAATTC
 TCCCTATGATCTTTGCAACCGGTTTGCAGCTGTATGGAGTCCATTCAAGGAGTTTCAACAGTAACCGTG
 AAATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_175482
- Insert Size:** 3156 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:**
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_175482.3](#), [NP_780691.2](#)
- RefSeq Size:** 4220 bp

RefSeq ORF: 3156 bp

Locus ID: 235323

UniProt ID: [Q5I043](#)

Cytogenetics: 9 A5.3

Gene Summary: Deubiquitinase involved in DNA damage response checkpoint and MYC proto-oncogene stability. Involved in DNA damage induced apoptosis by specifically deubiquitinating proteins of the DNA damage pathway such as CLSPN. Also involved in G2 DNA damage checkpoint, by deubiquitinating CLSPN, and preventing its degradation by the anaphase promoting complex/cyclosome (APC/C). In contrast, it does not deubiquitinate PLK1. Specifically deubiquitinates MYC in the nucleoplasm, leading to prevent MYC degradation by the proteasome: acts by specifically interacting with FBXW7 (FBW7alpha) in the nucleoplasm and counteracting ubiquitination of MYC by the SCF(FBXW7) complex. Deubiquitinates ZNF304, hence preventing ZNF304 degradation by the proteasome and leading to the activated KRAS-mediated promoter hypermethylation and transcriptional silencing of tumor suppressor genes (TSGs) in a subset of colorectal cancers (CRC) cells.[UniProtKB/Swiss-Prot Function]