

Product datasheet for **MC222978**

Usp37 (NM_176972) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp37 (NM_176972) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Usp37
Synonyms:	4932415L06Rik; C330008N13Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC222978 representing NM_176972
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCTCCCTGAAGATCTATGGTCTATCAGAATTCGAAGCATGCAGACTGGGATTACAAAGTGGAAAG
 AAGGGTCTTTGAAATTGTGAAAAAGACAATAGAGTCAGCCTGCTCGTTCACTACAACACTGGAGGAAT
 TCCAAGAGTGTTCAGCTAAGTCATAACATTAATAATGTGGTACTACGACCCAGTGAATAAAAACAAGC
 CGCCTAATGTTGACTTTACAAGATAACAGCTTCTTGTCTATTGACAAAGTACCAAGTAAGGATGCAGAGG
 AAATGAGGTTGTTCTAGATGCCGTCCATCAAACAGACTTCATGCAGCTATGAAAGCTTCTCAAGGTTT
 TGGTAGTTTTGGAATTTCTGGGCAGCAGGACCTCTCAGAAGGAACTAACAGACAGCTTTCTTACTCA
 GACAATCAGGCCCTTTCAAAAAGAGGAAGTTAGAACTAAAGATGAAATTCATTTGAAAAGTTCTTG
 GCAGTCTGGTAGAGGACCAATTAAGACTGTAAGTGGAGGTGGAATGGCTGTTACCCGGACTATTCCTTC
 TTTGACGCTGACATCAACACCTTTAGATCAGGATTATTAGAAAACCGCACTGAAAAGAGGAAAAGATG
 TTATCTGGTTTCAAGAGCTGACTGAAGATTACCCTAAGGAAAATGACTCATCATCGAACAACAAAGCTATGA
 CAGACCCTTCAAGAAAATATTAACAGCTGTAGAGAAAAGCAGCTGAGTTTGAACAGGCAGAAGAAAA
 TCGAACATCAGGGCTTTTACCTCTGCAGTCATCCTCATTCTATGGGAGCAGAGCTGGATCAAAGGACTAC
 TCTTCTGGTGTCACTAACCTGGACAGGTGTAATGTTTTCAAGCCAGACTCCTTCTGCCAAAAGAAGCCTGG
 GTTTTCTCTCAGCCAACTCCTCTGTCTGTTAAAAACTGAGGTGTAACAGGATTACCGGGCTGGAA
 CAGACCTAGAGTGCCCTTTCTCCCATCAACAGCAGCTGCAGGGATTCTCAACTTGGGAAATACATGC
 TATATGAATGCTATCTTACAATCTCTGTTTTCACTCCAGTCATTTGCAAATGATTTGCTTAAACAAGTA
 TCCCATTGGAAGAAAATCCATTCATGCACTTATCAGACGCTTTGCAAACCTGCTTATTAATAAGATAT
 TTGTAATTCAGAGACCAAAAAGAAGTAACTTAAGAAGGTTAAAAATGCTATTTTCAGCTACTGCAGAGAGA
 TTCTCTGGCTATGTCAAAATGATGCTCATGAATTTTTAAGTCAGTGCTTAGATCAGCTAAAGGAGGATA
 TGGAAAAACTGAAATAAACTTGAAGACAGAACCTGTCCTTGGAGAAGAAAATTTGCCAGATACATCAGC
 TACCAAAGTGTTCACGTGCCCTGTTATTACAACTTGGAGTTTGAAGTTCAGCACTCCATTATCTGTAAA
 GCATGTGGAGAACTATCCCAAAGAGAACAGTTCAATGACCTCTCCATTGACCTTCTCGGAGGAAAA
 AGCCACTCCCTCCTGTTCAATCCAAGATTCTCTCGATCTTTCTTTAGGGCAGAAGAAGCTTGAATACTC
 ATGTGAAAAGTGTGGTGGAAAATGTGCTTTGTCAGGCACAAATTAACAGGCTGCCAGGGTCTCATC
 CTTCAATTTGAAGGATACAGCTTCAATGTGGCTCTCTCACTTAAACAAGCTCGGACAGCAAGTATCA
 TCCCAAGATTCTGACCTGGCCTCCCCTGCACTGAGAGCACAAGCCGCCGGTACCCTTGGGTGGAG
 CGCACCCGTGGCAATTTCTAGACCATTGAGAGCCTGTCAAATGGTGAATTCCTGCATCACAGCCCTTCT
 GCACCTTCAAAGAAATTCACCTTCAAATCCAAGAGCTCCGTGACATCATGCCTTGATTGAGACAGTGAGG
 ATGAACTTAAACGCTCTGTGGTCTCAGTCAGAGACTTTGTGATTTGCCAGGCAATGAACAGTACCAGGA
 AGATGTGGAAAAAGATTTGAAATTTGTGCAGATTAGAGCCTGGGAAGGCAGAAGCTGGAGAAGTCAAGGAT
 GACAGAATGAGTGAGGAAGAGGTGCTGGCAGCTGTGTTAGAGATAAGCAGGAGAGAAGCTTCGCCGGTAC
 TTAGCCCTGAAGATGATGATAAGCCAACCAGCAGTCCGGACCCGGCTTTCAGAGAAGATGATATTCAGA
 AATGCCCTGAAAAATCCAGATGCTATGAAAATTTGAGAAGTCCAAAACAATCACTGAGCCAGGCTCTGCTAGT
 TTTACTGAGATAACAAAAGACTGTGATGAGAATAAAGAAAAACAACCTCCAGAAGGCTCTCAGGGAGAGG
 TTGATTGGCTCCAGCAGTATGACGTAGACCAGGAAAGAGAAGAGCAGGAGCTGCAGCAAGCACTGGCTCA
 GAGCCTTCAAGAGCAAGAGGCTTGGGAACAGAAGGAAGATGACGACCTCAAAGGGCTACAGAATTAAGT
 CTTCAAGAGTTTAAACACTCTTTTCTGGATTCCCTGGGCTCAGATGAGGACTCTGAAAATGAGGATGTTT
 TTGATATGGAGTACACAGAAGCTGAAGCTGAGGAGCTGAAAAGAAATGCTGAGACAGGAGCTTCTCTCA
 TTCCTATCGGCTCATCAGTGTGTCAGTCACATTGGGAGCACTTCTTCTCAGGTCATTACATTAGTGAT
 GTGATGACATTAAGAAACAGGCATGGTCACTTACAATGACCTGGAGGTCTCTAAAATCCAAGAGGCTG
 CCGTGCAGAGTATCGAGATCGCAGCGGCTATATCTTCTTATATGCACAAGGAGATCTTTGATGAGTT
 GCTGGAGACAGAAAAACCTCTCAGGCGCTTAGCATGGAGGTGGGAGAGCTGCCGTGAGGCTTCA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_176972
Insert Size:	2940 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:	NM_176972.4 , NP_795946.2
RefSeq Size:	7196 bp
RefSeq ORF:	2940 bp
Locus ID:	319651
UniProt ID:	Q8C0R0
Cytogenetics:	1 C3
Gene Summary:	<p>Deubiquitinase that antagonizes the anaphase-promoting complex (APC/C) during G1/S transition by mediating deubiquitination of cyclin-A (CCNA1 and CCNA2), thereby promoting S phase entry. Specifically mediates deubiquitination of 'Lys-11'-linked polyubiquitin chains, a specific ubiquitin-linkage type mediated by the APC/C complex. Also mediates deubiquitination of 'Lys-48'-linked polyubiquitin chains in vitro. Phosphorylation at Ser-628 during G1/S phase maximizes the deubiquitinase activity, leading to prevent degradation of cyclin-A (CCNA1 and CCNA2). Plays an important role in the regulation of DNA replication by stabilizing the licensing factor CDT1.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>