

Product datasheet for MC229572

Usp47 (NM_177249) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Usp47 (NM_177249) Mouse Untagged Clone
Tag: Tag Free
Symbol: Usp47
Synonyms: 4930502N04Rik; A630020C16Rik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229572 representing NM_177249
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTGCCCGCGAGGAGAACCAACTGGTCCCGAAGGAGGATGTGTTTTGGAGATGCAGACAAAATATCT
 TTGATGAAATGAAGAAGAAATTTTACAGATAGAAAATGCTGCTGAAGAACCTAGAGTCTTATGTATAAT
 ACAAGACTACTAACTCGAAGACAGTGAAGTGAACGGATCACATTAATTTACCAGCATCTACCCAGTC
 CGAAAGCTCTTTGAAGATGTGGCAACAAAGTAGGCTACATAAATGGAACCTTTGATTTGACCAGGGAAA
 ATGGAGTCACTACTGCTGACATGGCACCCTGGATCACACCAGTACAAGTCTCTTCTTGATGCTAATTT
 TGAGCCAGGAAAGAAGAACTTTCTGCATTTGACAGATAAAGATGGTGAACCGCCTCAGATGTTGTTGGAG
 GACTCCAATAACGTGGATGACAGCGTGCATGACAGGTTTCATAGTCCACTGCCAAGAGAAGGTTCTGTGG
 CCTCTACCAATGATTATGTCAGCCAGAACTACTCCTATTCATCAATTTGAACAAGTCAGAACTGGTTA
 TGTGGGATTAGTAAACCAGGCGATGACGTGCTATTTGAATAGCCTTTTGCAAACACTTTTATGACTCCT
 GAATTTAGGAATGCATTATATAAGTGGGAATTTGAAGACTCTGAAGAAGATCCTGTAACGAGTATCCCAT
 ACCAGCTTCAAAGGCTTTTTGTTTTGTTACAAACCAGCAAAAAGAGAGCAATTGAGACCAGAGATTAC
 AAGGAGCTTTGGATGGGATAGCAGTGAAGCTTGGCAACAGCATGATGTACAAGAAGTGTCCCGTGTATG
 TTTGATGCTTTGGAACAGAAATGGAAGCAACAGAACAGGCTGATCTTATAAATGAGCTGTACCAAGGCA
 AGCTGAAAGATTATGTGAGGTGCTGGAATGCGGTTATGAAGGCTGGAGAATTGACACGTATCTTGATAT
 TCCACTGGTCACTCGACCTTATGGGTCAGCCAAGCGTTTGTAGTGTGGAAGAAGCGTTGCATGCATTT
 ATCAACCAGAGATCTGGATGGCCAAATCAATATTTTTGTGAACGTTGTAAGAAGAAGTGTGATGCTC
 GGAAGGCGCTTCGGTTTTGCAATTTCCCTATCTGCTGACCTTACAGTTGAAAAGTTTTGATTTTGATTA
 TACAACCATGCATAGAATTAACCTGAATGATCGAATGTCATTTCCGAGGAGCTGGATATGAGCACATTT
 ATTGATATTGAAGATGAGAAATCTCCTCAGACTGAAAGTTGCACTGATAGTGGAGCAGAAAATGAAGGCA
 GTTGCCACAGCGACCAGATGAGTAAATGATTTCTCCACGGATGATGCTGTTGATGAAGGGATATGCCTGGA
 GAGCAGTAGTGGGAGTGAGAAGATTTCAAACCTGGCCTGGAAAAGAAGTCCCTGATGTATGAGCTCTTC
 TCAGTGATGGTGCATTCAGGGAGTGTGCTGGAGGACACTATTATGCTTGCATAAAGTCTTTCAGTGACG



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ATCAATGGTACAGTTTCAATGACCAACATGTGAGCAGGATAACACAAGAAGACATTAAGAAGACACATGG
 TGGGTCTTCAGGAAGCAGAGGCTACTACTCCAGTGCTTTTGAAGCTCAACAAATGCATATATGCTGATA
 TACAGACTGAAGGATCCAACAAGAAATGCAAAGTTTCTAGAAGTGGACGAGTACCCAGAACACATTAAGA
 ATCTGGTGCAGAAGGAGAGAGCTGGAAGAGCAGGAAAAGAGGCAACGAGAGATTGAACGCAACACGTG
 CAAGATAAAATATTTTGTTCATCCTGTGAAACAAGTAATGATGAAAAACAAGCTGGAGGTTCCATAAG
 GATAAGACGCTAAAGGAAGCCGTTGAAATGGCTTATAAGATGATGGATTTAGAAGATGTGATCCCTTGG
 ATTGCTGTCGCCCTGGTAAAATATGACGAGTTTCATGATTACCTGGAACGATCGTATGAGGGAGAAGAAGA
 TACACCAATGGGGTTGCTTCTAGGAGGAGTCAAGTCCACATACATGTTTGATCTGCTGTTGGAAACGAGA
 AAGCCTGATCAAATTTTTCAGTCTTACAAACCTGGAGAAGTGATGGTGAAGTTCATGTTGTTGATCTGA
 AAGCAGAGACTGTCGCTGCTCCTGTAACAGTGCCTGCGTATTTAAATCAGACAGTTACAGAGTTTAAACA
 GCTGATCTCAAAGGCCACGCACTTACCTGCAGACTCCATGAGGATAGTGTGGAGCGCTGCTACAATGAC
 CTGCGCCTTCTCAGCATGCCAGCAAGACCCTGAAGGCTGAGGGCTTCTCAGAAGTAACAAGGTGTTTG
 TTGAAAGCTCTGAGACAGTGGATCACCAGGCAGCCTTACAGACTCCACTTGTGAAAACCTCTGGATCG
 ACATGCAAATACAATCCGGTATTTGTTTTGCTGCCTGAACAATCTCCAGGATCATATTCGAAAAGGACA
 GCATACCAGAAAGCTGGAGGTGATTCTGGTAATGTGGACGATGATTGTGAAAGAGTCAAAGGACCTGCAG
 GGAATTTAAAGTCTGTGGATGCTATTCTAGAAGAGAGCACTGAAAAACTGAAAAGCTTGTACTGCAGCA
 GCAGCAGCAAGATGGGGACAACGGAGACAGCAGCAAAAGCACTGAGACAAGTGACTTTGAAAATATTGAA
 TCCCTCTCAATGAGAGGGGCTCTCCACTCTGTGGATAATCGAGAACTTGAACAGCACATTCAGACTT
 CTGACCCAGAAAACCTTTCAGTCTGAGGAACGCTCGGACTCAGATGTGAATAATGACCCGGAGTACAAGTTC
 GGTAGACAGTGATATTCTTAGCTCCAGTACAGCAGTGACACTTTGTGCAATGCAGACAGCGCTCAGATT
 CCTCTGGCCAATGGACTTGACTCTCACAGTATCACAAGTAGTGAAGAATAAGCAAACGAGGGGAAAA
 AGGAGACCTGGGACACAGCTGAAGAAGACTCTGGGACTGACAGTGAATATGACGAGAGTGGCAAGAGCAC
 GGGGGACATGCAGTACATGTACTTCAAAGCTGACCCCTACACTGCGGATGAAGGCTCTGGGAAGGACAC
 AAATGGTTGATGGTGATGTTGATAAGAGAATCACCCCTGGCAGCTTTCAAACAGCATTTAGAACCTTTTG
 TTGGAGTCTCTCTCACTTCAAGGTTTTTCGAGTGTACACCAGCAATCAAGAGTTTGAGACCGTCCG
 GTTGAATGAGACCCTTTCATCATTTTTCAGATGACAATAAGATCACAATCCGACTGGGGAGAGCACTGAAG
 AAGGGAGAGTACAGAGTTAAAGTGTGCCAGCTCTTAGTCAATGAGCAAGAGCCATGCAAGTTTCTGCTAG
 ACGCTGTGTTTGCTAAAGGCATGACTGTGCGGCAATCAAAGAGGAGCTGATTCTCAACTCAGGGAGCA
 GTGTGGCTTAGACCTCAGCATCGACAGGTTTCGTCTAAGGAAGAAAACATGGAAGAATCCTGGCACTGTC
 TTTTTGGATTATCATATTTATGAAGAAGATATTAATTTCCAGCAACTGGGAAGTTTTCTGGAAGTTC
 TTGATGGTGTGGAGAAGATGAAGTCCATGTCACAGCTTGCATCTTAACAAGACGCTGGAGCGCTGCAGA
 GATGAAGTTGGACCCCTCCAGGAGCTTGTGTTGGAAAGCAATAGTGTGATGAACCTCCGAGAGAAGCTA
 AGTGAATCAGTGGGATTCCTTTGGAAGACATTGAATTTGCCAAGGGTAGGGGAACCTTCCCTGTGATA
 TTTCTGCTTGTATTCATCAAGATTTGGACTGGAAATCCTAAAGTCTCTACCCTGAATGTTTGGCCTCT
 TTATATCTGTGATGATGGTGCCGTCAATTTATAGGGATAGAACAGAAGAAGTGAATGGAATTGACAGAT
 GAGCAAAGAAATGAATTGATGAAAAAGGAAAGCAGCCGACTGCAGAAGACGGGACATCGTGTGACATACT
 CCCCTCGCAAAGAGAAAGCACTCAAGATCTACCTGGATGGGGCGCCAAATAAAGATGTGGCTCAAGACTG
 A

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_177249

Insert Size:

4131 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).

OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_177249.3 , NP_796223.2
RefSeq Size:	5600 bp
RefSeq ORF:	4131 bp
Locus ID:	74996
UniProt ID:	Q8BY87
Cytogenetics:	7 F1
Gene Summary:	Ubiquitin-specific protease that specifically deubiquitinates monoubiquitinated DNA polymerase beta (POLB), stabilizing POLB thereby playing a role in base-excision repair (BER) (By similarity). Acts as a regulator of cell growth and genome integrity. May also indirectly regulate CDC25A expression at a transcriptional level.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) encodes isoform 1. Variants 1 and 3 encode protein isoforms of identical length but with distinct amino acid sequences.