

Product datasheet for SC315333

USP47 (NM_017944) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP47 (NM_017944) Human Untagged Clone
Tag:	Tag Free
Symbol:	USP47
Synonyms:	TRFP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC315333 representing NM_017944. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTGCCCGGCGAGGAGAACCAACTGGTCCCAGAAAGAGGCACCACTGGATCATACCAGTGACAAGTCA
CTTCTCGACGCTAATTTTGAGCCAGGAAAGAAGAACTTTCTGCATTTGACAGATAAAGATGGTGAACAA
CCTCAAATACTGCTGGAGGATCCAGTGTGGGAAGACAGTGTTCATGACAGGTTTATAGGTCGCTT
CCAAGAGAAGGTTCTGGGGTTCTACCAGTGATTATGTCAGCCAAAGCTACTCCTACTCATCTATTTTG
AATAAATCAGAACTGGATATGTGGGACTAGTAAACCAAGCAATGACTTGCTATTTGAATAGCCTTTTG
CAAACACTTTTTATGACTCCTGAATTTAGGAATGCATTATATAAGTGGGAATTTGAAGAATCTGAAGAA
GATCCAGTGACAAGTATTCCATACCAACTTCAAAGGCTTTTTGTTTTGTTACAAACCAGCAAAAAGAGA
GCAATTTGAAACCACAGATGTTACAAGGAGCTTTGGATGGGATAGTAGTGAGGCTTGGCAGCAGCATGAT
GTACAAGAACTATGCAGAGTCATGTTTGATGCTTTGGAACAGAAAATGGAAGCAACAGAACAGGCTGAT
CTTATAAATGAGCTATATCAAGGCAAGCTGAAGGACTACGTGAGATGCTGGAATGTGGTTATGAGGGC
TGGCGAATCGACACATATCTTGATATCCATTGGTCATCCGACCTTATGGGTCCAGCCAAGCATTGCT
AGTGTGGAAGAAGCATTGCATGCAATTTATCAGCCAGAGATCTGGATGGCCAAATCAGTATTTTTGT
GAACGTTGTAAGAAGAAGTGTGATGCACGGAAGGGCCTTCGGTTTTGCATTTTCCTTATCTGCTGACC
TTACAGCTGAAAAGATTGATTTTGATTATACAACCATGCATAGGATTAAGTGAATGATCGAATGACA
TTTCCCGAGGAACTAGATATGAGTACTTTTATTGATGTTGAAGATGAGAAATCTCCTCAGACTGAAAGT
TGCACTGACAGTGGAGCAGAAAATGAAGGTAGTTGTCACAGTGATCAGATGAGCAACGATTTCTCCAAT
GATGATGGTGTGATGAAGGAATCTGTCTTGAACCAATAGTGGAACTGAAAAGATCTCAAAATCTGGA
CTTGAAGAATTCCTTGATCTATGAACCTTTCTGTTATGGTTCATTCTGGGAGCGCTGCTGGTGGT
CATTATTATGCATGTATAAAGTCATTTCAGTGATGAGCAGTGGTACAGCTTCAATGATCAACATGTCAGC
AGGATAACACAAGAGGACATTAAGAAAACACATGGTGGATCTTCAGGAAGCAGAGGATATTATTCTAGT
GCTTTTCGCAAGTCCACAAATGCATATATGCTGATCTATAGACTGAAGGATCCAGCCAGAAATGCAAAA
TTTCTAGAAGTGGATGAATACCCAGAACATATTAATAAAGTGGTGCAGAAAGAGAGAGATTGGAAGAA
```



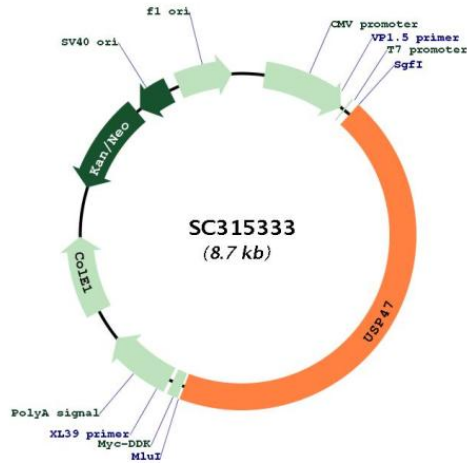
[View online »](#)

CAAGAAAAGAGACAACGAGAAATTGAGCGCAATACATGCAAGATAAAATTATTCTGTTTGCATCCTACA
 AAACAAGTAAATGATGGAAAATAAATGGAGGTTTCATAAGGATAAGACATTAAGGAAGCAGTAGAAATG
 GCTTATAAGATGATGGATTTAGAAGAGGTAATACCCCTGGATTGCTGTCGCCCTGTTAAATATGATGAG
 TTTTCATGATTATCTAGAACGGTCATATGAAGGAGAAGAAGATACACCAATGGGGCTTCTACTAGGTGGC
 GTCAAGTCAACATATATGTTTGTCTGCTGTTGGAGACGAGAAAGCCTGATCAGGTTTTCCAATCTTAT
 AAACCTGGAGAAGTGTGGTAAAGTTCATGTTGTTGATCTAAAGGCAGAATCTGTAGCTGCTCCTATA
 ACTGTTCTGCTTACTTAAATCAGACAGTTACAGAATTCAAACAACCTGATTTCAAAGGCCATCCATTTA
 CCTGCTGAAACAATGAGAATAGTGTGGAACGCTGCTACAATGATTTGCGTCTTCTCAGTGTCTCCAGT
 AAAACCTGAAAGCTGAAGGATTTTTTGAAGTAACAAGTGTTTGTGAAAGCTCCGAGACTTTGGAT
 TACCAGATGGCCTTTCAGACTCTCATTATGGAACCTCTGGATCGGCATGCAAATACAATCAGATTA
 TTTGTTTTGCTACCTGAACAATCCCGATATCTTATCCAAAAGGACAGCATACCAGAAAGCTGGAGGC
 GATTCTGGTAATGTGGATGATGACTGTGAAAGAGTCAAAGGACCTGTAGGAAGCCTAAAGCTGTGGAA
 GCTATTCTAGAAGAAAGCACTGAAAACTCAAAGCTTGTCACTGCAGCAACAGCAGGATGGAGATAAT
 GGGGACAGCAGCAAAAGTACTGAGACAAGTGACTTTGAAAACATCGAATCACCTCTCAATGAGAGGGAC
 TCTTCAGCATCAGTGGATAATAGAGAAGTGAACAGCATATTCAGACTTCTGATCCAGAAAATTTTCAG
 TCTGAAGAACGATCAGACTCAGATGTGAATAATGACAGGAGTACAAGTTCAGTGGACAGTGATATCTT
 AGCTCCAGTCATAGCAGTGATACTTTGTGCAATGCAGACAATGCTCAGATCCCTTTGGCTAATGGACTT
 GACTCTCACAGTATCACAAAGTAGTAGAAGAACGAAAGCAAATGAAGGGAAAAAGAAACATGGGATACA
 GCAGAAGAAGACTCTGGAAGTATAGTGAATATGATGAGAGTGGCAAGAGTAGGGGAGAAATGCAGTAC
 ATGTATTTCAAAGCTGAACCTTATGCTGCAGATGAAGGTTCTGGGGAAGGACATAAATGGTTGATGGTG
 CATGTTGATAAAAAGATTACTCTGGCAGCTTTCAAACAACATTTAGAGCCCTTTGTTGGAGTTTTGTCC
 TCTCACTTCAAGGTCTTTCGAGTGTATGCCAGCAATCAAGAGTTTGAGAGCGTCCGGCTGAATGAGACA
 CTTTCATCATTCTGATGACAATAAGATTACAATTAGACTGGGAGAGCACTTAAAAAGGAGAATAC
 AGAGTTAAAGTATACCAGCTTTTGGTCAATGAACAAGAGCCATGCAAGTTTCTGCTAGATGCTGTGTTT
 GCTAAAGGAATGACTGTACGGCAATCAAAGAGGAATTAATTCCTCAGCTCAGGGAGCAATGTGGTTTA
 GAGCTCAGTATTGACAGGTTTCGTCTAAGGAAAAAACATGGAAGAATCCTGGCACTGTCTTTTGGAT
 TATCATATTTATGAAGAAGATATTAATATTTCCAGCAACTGGGAGGTTTTCTTGAAGTTCTTGATGGG
 GTAGAGAAGATGAAGTCCATGTCACAGCTTGCAGTTTTGTCAAGACGGTGGAAAGCCTTCAGAGATGAAG
 TTGGATCCCTCCAGGAGGTTGATTGAAAGCAGTAGTGTGGACGAATTGCGAGAGAAGCTTAGTGAA
 ATCAGTGGGATTCCTTTGGATGATATTGAATTTGCTAAGGGTAGAGGAACATTTCCCTGTGATATTTCT
 GTCCTTGATATTCATCAGGATTTAGACTGGAATCCTAAAGTTTCTACCCTGAATGTCTGGCCTCTTTAT
 ATCTGTGATGATGGTGGGTCATATTTATAGGATAAAAACAGAAGAATTAATGGAATTGACAGATGAG
 CAAAGAAATGAACTGATGAAAAAGAAAGCAGTCGACTCCAGAAGACTGGACATCGTGAACATACTCA
 CCTCGTAAAGAGAAAGCACTAAAAATATATCTGGATGGAGCACCATAAAGATCTGACTCAAGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC

Restriction Sites:

SgfI-MluI

Plasmid Map:


ACCN: NM_017944

Insert Size: 3864 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_017944.3
RefSeq Size:	7777 bp
RefSeq ORF:	3864 bp
Locus ID:	55031
UniProt ID:	Q96K76
Cytogenetics:	11p15.3
Domains:	UCH
MW:	147.2 kDa
Gene Summary:	Ubiquitin-specific protease that specifically deubiquitinates monoubiquitinated DNA polymerase beta (POLB), stabilizing POLB thereby playing a role in base-excision repair (BER). Acts as a regulator of cell growth and genome integrity. May also indirectly regulate CDC25A expression at a transcriptional level.[UniProtKB/Swiss-Prot Function]