

Product datasheet for **SC328107**

USP24 (NM_015306) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP24 (NM_015306) Human Untagged Clone
Tag:	Tag Free
Symbol:	USP24
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC328107 representing NM_015306. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAATCGGAGGAGGAGCAGCACATGACCACGCTGCTGTGCATGGGCTTCTCAGACCCCGCCACCATC
CGCAAGGCCCTGCGCCTGGCCAAGAACGACATTAACGAGGCCGTGGCACTGCTCACCAACGAGCGGCCG
GGCCTCGACTACGGCGGCTACGAGCCATGGACAGCGCGGTGGCCCCAGCCCCGGGGCCGGCGGGG
CCGCGGGGCGACGGCGGAGGTGACGGCGGGCGGGCGGCCCTCCCGCGGGGAGCACCAGGAGCGGG
GGCGGCTTCGACCCCGCCCGCCTACCACGAGGTGGTGGACGCGGAGAAGAATGATGAGAATGAAAC
TGCTCAGGGGAAGGAATTGAATCCCTACAACAATTTATGAACTGGAAAGCCGTGTTTGTAGTAT
CATTGGTCCATCCCTTACAAGCGAGAAGAATCACTAGGCAATGCCTGTTGGCATCTACCTACCTAGCA
AGACTTGGTCTTCCGAGTCTGATGAGAATTGTAGAAGTTTATGGACAGGTGTATGCCTGAAGCATTT
AAAAAGCTCCTGACATCAAGTGCTGTTCAAGTGGGACTGAAATTCATGAAGGAATTTACAACATG
TTGATGCTATTAATAGAAGTGGTCGAGAGAGAATAAAACAAGATCCAATCCCCTGGTCTCCTGGGT
GTGCTTACAATGGCTTCAATCCTGATAATGAATACCATTTAAAAACAGAATGAAAGTGTCTCAAAGG
AATTGGGCAGAAGTGTGGAGAGGAAATATGTTTGGTGTTCACCTGTATCGACTTCCAAAAGGAG
CCTCATGGATGGTGTGGATTTGGTAAATAAGTTTGGAGAATTAGGTGGATTTGCAGCAATCCAAGCC
AAGCTCCATTGAGAAGATATAGAAGTGGGGCTGTCTCAGCACTGATTCAGCCCTTAGGAGTGTGTGCA
GAGTACCTCAATCCTCGTGGTACAGCCATGCTAGACCAAGTATTCTTACTACAATCCAGGATGTA
CGGAGTGTAGAAGAGAAAGACCTCAAAGACAAGAGATTGGTTAGCATCCCTGAGCTCTTGTCTGCCGTT
AAGTTACTTTGCATGCGCTTCCAACCGGATCTGGTGACAATTGTGGATGACCTTCGACTAGATATTCTA
TTGCGCATGCTGAAATCACCACATTTCAAGTGAAGTGAATCTCTCAAAGAAGTAACCAAACTAATA
GAAGATAGCACTTTATCCAATCTGTGAAGAATGCTATAGATACAGACAGATTATTAGATTGGCTAGTT
GAAAACCTCAGTTCTGCGATTGCACTGGAAGGCAACATAGACCAAGCACAATACTGTGACCGTATAAAG
GGAATTTGAACTCTTGGGTAGTAAATGTGCTTAGATGAACTCACTAAAATTTGGAAGATACAGTCA
GGACAATCATCTACTGTGATTGAGAATTCATACTATTATTGCTGCAGCGGCTGTGAAATTTAATTC
GATCAGCTTAATCATTTGTTGTTCTCATTGAGAAGAGCTGGGAGACTGAGAGTATAGAGTAAAGACAG
AAGCTTTTGGCCTGATTGGACGAATAGGCCGGGAAGCTCGCTTTGAGACCACTTCTGAAAGGTTTTA
```



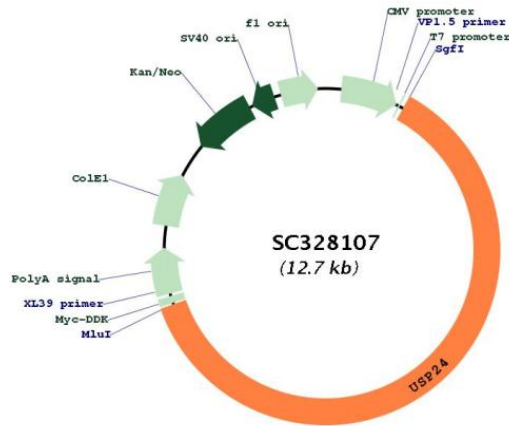
[View online »](#)

GACGTA CTCTGGGAACTGGCTCACCTTCCAACCCTGCCAGTAGCCTTATTCAGCAGGCCTTGGAGGAG
CACCTGACAATCCTTAGTGATGCATATGCAGTGAAGAAGCAATCAAGAGGAGCTACATCATCAAGTGC
ATAGAAGATATTAAGAGGCCTGGAGAAATGGTCAGGTTTGGAAAAACAAGAAGGATGGATTCAAGTCA
TCTCAGCTTAATAATCCCAGTTTGTATGGGTGGTACCAGCTTTCGCTCAGCTCCATGAAATTA CTGC
TCATTCAAAAACAAACCTATCAAAAGCAAGACAAGAGCATTATCAAGACTTGAAGAAGAAATTTGAA
ATAGTGAATTTGGTAACGGGAAGTTTGTATCGCTTGTATCGGCTGCAGCTGCTGTGGCCGGCCTGGA
GGCTTAAGTGGCTCGACACTAGTGGATGGCCGGTACACTTACCGGGAGTATTTAGAGGCACATCTAAAA
TTTCTAGCGTTTTTCTTGAAGAAGCTACTCTGTATCTGGGCTGGAATCGTGCCAAGGAGATCTGGGAG
TGTCTTGA AACTGGCCAGGATGTTTGTGAATTAGATAGAGAGATGTGTTTTGAATGGTTTACAAAAGGA
CAGCATGATCTTGAGAGTGATGTT CAGCAGCAGCTCTTCAAGGAGAAAATTTCTAAATTTGGAGTCATAT
GAAATCACTATGAATGGTTTTAACTTATTTAAAACCTTTTTTGA AAAATGTGAATCTTTGTGATCATCGA
TTGAAAAGACAAGGAGCTCAGTTGTATGTAGAAAAGCTGGAATTTGATAGGAATGGATTTTCAATTTGAAA
ATAGCCATGGAATCACCTGATGAAGAAATGCTAATGAAGCTATTCAGCTAATCATAAATATAGTTAC
ATTAATCTAAATCCTAGATTAAGAAGGATT CAGTATCTTTACATAAGAAATTCATTGCTGATTGCTAC
ACAAGATTAGAAGCAGCCAGTTCAGCAGCTTGGTGGCCCCACTCTAACACATGCTGTGACCAGAGCAACA
AAAATGCTTACAGCAACTGCCATGCCAACTGTAGCAACCTCAGTTCAGTCTCCTTATAGATCTACTAAA
CTTGTAATAATTGAGAGATTGCTGCTTCTGGCAGAGCGCTATGTGATCACTATAGAGGATTTTTACTCT
GTTCCACGA ACTATTCTACCTCATGGTGCCTCATTTCATGGACATCTTTTAAACCCTAATGTTACCTAT
GAGTCTACCAAAGATACCTTCACTGTGAGGCTCACAGTAATGAAACCATAGGGAGTGTCCGGTGGAAA
ATAGCCAAAGCAGTTGTGCTCTCCTGTGGATAATATACAGATATTTACAAATGATAGCCTGCTGACAGTG
AATAAAGATCAAAAGCTACTCCACCAACTGGGCTTTTCTGATGAACAAATCCTTACAGTGAAGACTTCT
GGCAGTGGGACCCCATCTGGGAGTTCAGCAGATTCTTCAACCAGCTCCAGCAGCAGCAGTGGGGTT
TTTGTCTTTCATATGCCATGGAGCAGGAGAAAATCCCTCCCTGGTGTAGTGTGCTCGTATGTAACT
GTATTTGACATGCTTTTACAGCTCGCCAACTGTGAAGAGCCAAGGATAACTCTACGAGTACGGAAGCTT
CTGCTCTTGATACCCACTGATCCAGCCATT CAGGAAGCCCTTGATCAACTTGATTCTTTAGGAAGAAAG
AAAACATTGCTGTCTGAATCAAGTTCTCAGTCTCAAAAATCTCCATCCCTGTCATCAAAGCAACAGCAC
CAGCCAAGTGCCAGTTCAATTTTAGAAAGTCTGTTTCGATCTTTTGCCCCGGGAATGTCTACCTT CAGA
GTGCTCTACA ACTTAGAAGTTCTAAGCTCCAAACTCATGCCAACAGCTGATGATGACATGCCAGAAAGC
TGTGCCAAATCCTTCTGTGAAA ACTTCTCAAAGCTGGCGGTTTGAGTTTGGTTGAAATGTCATGCAG
AGAGACTCCATCCATCAGAAGTAGACTATGAAACAAGGCAGGGTGTATTCCATCTGTCTACAGCTT
GCAAGATTTTTACTTGTGCGACAACAATGCCACGTTATTAGATGAAGACCTCACCAAAGATGGTATA
GAAGCACTTTCTCCCGCCATTCCGAAATGTCAGCCGGCAGACAAGCAGACAGATGTCTTATGTGGT
ACCCAGAAAAGTCATCCTACCGACAGTTGTCCGTGCTGATAGGTCTTCTATTAGGGTTGAGGAAATC
ATCCCTGCTGCTCGAGTTGCAATACAAACAATGGAAGTAAAGTATTTCACTTCTACTGTGGCTTGTCTC
ATGAGATTGTCATGGGCTGCGGCTGCAGGACGGCTTGATCTTGTGGGAGTAGCCAGCCAATTAAGAA
AGTAATTCCTGTGCTGCTGGAATTCGAAACAGACTCAGCAGTT CAGGAAGCAATTCAGCTCTGGA
AGTGAAGGAGAACCAGTAGCCCTGCATGCGGGAATCTGTGTTGCAACAAGTCTGTATCCACCAAAGAC
TCGCTGATTGCGGGAGAGGCTTTGTCTCTTCTTGTACGTGCCTACAGCTTCGGAGCCAGCAACTGGCA
TCTTTCTATAACTTGCCTGTGTTGCTGATTTTCATCATTGATATTCTGCTCGGATCACCAAGTGTGAG
ATTCGCGGGTTGCCTGTGATCAGCTGTACACTCTTAGTCAGACAGACACATCAGCGCATCCAGATGTG
CAGAAGCCAAATCAGTTTCTTCTAGGCGTAATCCTCACGGCTCAGCTGCCTCTCTGGTCTCCA ACTAGT
ATTATGAGAGGAGTCAATCAGAGACTGTTATCTCAGTGTATGGAGTATTTT GATTGAGATGCCAGTTA
TTAGATGATCTGACA ACTTCAGAAATGGAGCAGTTAAGGATCAGCCAGCTACGATGCTTGAAGATGAG
ATTACTTGGCTGGATAACTTTGAACCTAATCGTACAGCTGAATGTGAGACCAGTGAAGCGGACAACATC
TTACTGGCAGGGCACTTACGCCTCATCAAGACCCTTCTTCACTCTGTGGGCAGAAAAGGAAATGCTT
GGTTCATCACTCATTAAACCATTGTTAGATGACTTCTTTTCCGAGCTTCTAGAATATTTTAAATAGT
CATTCTCCAGCTGGCAGTGCCGCCATCAGTCAACAGGACTTTCATCAAAGTGTAGTACAGCGAATAGC
CGATTGGCAGCCTATGAAGTCTTGTGATGTTGGCTGATAGTTACCTTCAAATCTTCAAATTTATATA
AAAGA ACTGCTTTCTATGCATCACCAGCCTGACCTGCTCTTACCAAGGAGTTTGATTACCTTCCCCCA
GTGGATAGCAGGTCAGTT CAGGGTTTGTGGGGCTGAGAAATGGTGGTGA ACTTGTATATGAATGCA
GTCTTCCAGCAGCTGATATGCAACCTGGGCTCCCTGAGTCACTTTT CAGTGGATGATGACACAGAC
AATCCAGATGATAGCGTGTTTTACCAAGTGCAGTCTCTTTTGGACATTTAATGGAAGCAAGCTGCAG

TACTATGTACCTGAGAATTTTTGGAAGATTTTCAAGATGTGGAATAAAGAACTTTATGTGAGAGAACAG
 CAGGATGCATATGAATCTTTACTAGTCTCATTGATCAGATGGATGAATACCTCAAGAAAATGGGGAGA
 GACCAATTTTTAAGAATACATTTACAGGCATCTACTCTGATCAGAAGATCTGTAAGACTGTCCTCAC
 AGATATGAGCGTGAAGAAGCTTTCATGGCTCTCAATCTAGGAGTGACTTCTTGTGAGAGTTTGGAAAT
 TCTTTGGACCAATTTGTTAGAGGAGAAGTCTAGAAGGAAGTAAATGCCTACTACTGTGAAAAGTGTAAA
 GAAAAGAGAATAACAGTAAAAGGACCTGTATTAATCTTTACCTAGCGTCTTGGTAATTCACCTAATG
 AGATTTGGGTTTGACTGGGAAAGCGGACGCTCCATTAATATGATGAACAAATAAGGATTTCCCTGGATG
 CTAACATGGAGCCTTACACAGTTTCAGGAATGGCTCGCCAAGATTTCTTCTGAAAGTTGGGAAAAT
 GGGCGAAGTGTGGATCAGGGCGGTGGAGGATCCCCACGAAAAAAGGTTGCCCTCACAGAAAACTATGAA
 CTTGTGCGGTGTCATCGTACACAGTGGGCAGGCACACGCAGGCCACTACTATTCCTTCATTAAGGACAGG
 CGAGGGTGTGAAAAGGAAAGTGGTATAAATTTAATGACACAGTTATAGAAGATTTGACCTAAATGAC
 GAGACCTGGAGTATGAATGCTTTGGAGGAGAATATAGACCAAAAGTTTATGATCAAACAAACCCATAC
 ACTGATGTGCGCCGAAGATACTGGAATGCCTATATGCTTTTCTACCAAAGGGTGTCTGATCAGAACTCC
 CCAGTATTACCAAAGAAAAGTCGAGTCAGCGTTGTACGGCAGGAAGCTGAGGATCTCTCTGTGAGCT
 CCATCTTACCAGAAAATTCACCTCAGTCATCCCCTCGGCCCATAGGCCGAACAATGACCGGCTGTCT
 ATCTTACCAAGCTGGTTAAAAAGGCGAGAAGAAAGGACTGTTGTGGAGAAAAATGCCTGCTCGAATA
 TACCAGATGGTGAGAGATGAGAACCTCAAGTTTATGAAGAATAGAGATGTATACAGTAGTGATTATTTTC
 AGTTTTGTTTTGTCTTTAGCTTCATTGAATGCTACTAAATTAAGCATCCATATTATCCTTGCATGGCA
 AAGGTGAGCTTACAGCTTGTATTCAATTCCTTTTTCAAATTTCTACGGACAAAGAAGAACTCAGG
 GTTGATACTGAAGAATGGATTGCTACCATTGAAGCATTGCTTTCAAAAAGTTTGTGCTGTGAGTGG
 TTAGTTGAATATTTTATAGTTCTGAAGGACGAGAATTGATAAAGATTTTCTTACTGGAGTGAATGTG
 AGAGAAGTACGAGTTGCTGTGGCCACCATTCTGGAGAAACCCTAGACAGTGCCTGTTTTATCAGGAT
 AAGTTAAAAAGCCTTTCATCAGTTACTGGAGTACTACTGCTGTTGGACAAAGACGTCCTCAGAAAAT
 TGTAAAAACTGTGCTCAGTACTTTTTCTGTTCAACACTTTTGTACAAAAGCAAGGAATTAGGGCTGGA
 GATCTTCTTGTGAGGCATTGAGCTCTGCGGCACATGATCAGCTTCTCCTAGGGGCCAGTCGGCAAAAC
 AATCAGATACGTCGATGGAGTTCAGCACAGCAGAGAATTTGGGAATCTTCACAATACAGTGGCGTTA
 CTTGTTTTGCATTCAGATGTCTCATCCCAAAGGAATGTTGCTCCTGGCATATTTAAGCAACGACCACCC
 ATTAGCATTGCTCCCTCAAGCCCTCTGTTGCCCTCCATGAGGAGGTAGAAGCCTTGTGTTGATGCT
 GAAGGGAAACCTTACCTGTTAGAGGTAATGTTGCTTTGCGGGAGCTGACAGGCTCGCTCTTGGCACTC
 ATTGAGATGGTAGTGTACTGCTGTTTCTGTAATGAGCATTTCCTTCAATGCTGCATTTCAATTAAG
 AACCAACTAGAAACGGCTCCACCTCATGAGTTAAGAATACGTTCCAACACTTTCATGAAATATTGGTT
 ATTGAAAGATCCTATACAAGTAGAGCGAGTCAAATTTGTGTTGAGACAGAAAATGGATTACTAGCTTTG
 ATGCACCACAGTAATCATGTGGACAGTAGTCGCTGCTACCAAGTGTGCAATTTCTTGTCACTCTTGT
 CAAAAGTGTCTGAGCTAAGGAGTACTTCAAGGAGAATCCCACCAGTGGAGCTGGGCTGTGAGTGG
 CTACAGAAGAAGATGTCAGAACATTACTGGACACCACAGAGTAATGTCTCTAATGAAACATCAACTGGA
 AAAACCTTTCAGCGAACCATTTGAGTCTCAGGACACGTTAGCGTATGCCACAGCTTTGTTGAATGAAAA
 GAGCAATCAGGAAGCAGTAATGGGTCGGAGAGTAGTCTGCCAATGAGAACGGAGACAGGCATCTACAG
 CAGGGTTCAGAACTCTCCCATGATGATTGGTGGAGTTGAGAAGTGACCTTGTGATGTTGATCCCTAG
 ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:

Sgfl-Mlul

Plasmid Map:


ACCN: NM_015306

Insert Size: 7863 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:	<u>NM_015306.2</u>
RefSeq Size:	10802 bp
RefSeq ORF:	7863 bp
Locus ID:	23358
UniProt ID:	<u>Q9UPU5</u>
Cytogenetics:	1p32.3
Protein Families:	Druggable Genome, Protease
MW:	294.4 kDa
Gene Summary:	Modification of cellular proteins by ubiquitin is an essential regulatory mechanism controlled by the coordinated action of multiple ubiquitin-conjugating and deubiquitinating enzymes. USP24 belongs to a large family of cysteine proteases that function as deubiquitinating enzymes (Quesada et al., 2004 [PubMed 14715245]).[supplied by OMIM, Mar 2008]