

Product datasheet for **SC126539**

USP21 (NM_012475) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | USP21 (NM_012475) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | USP21 |
| Synonyms: | USP16; USP23 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene ORF within SC126539 sequence for NM_012475 edited (data generated by NextGen Sequencing)

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ATGCCCCAGGCCTCTGAGCACCGCCTGGGCCGTACCCGAGAGCCACCTGTTAATATCCAG
CCCCGAGTGGGATCCAAGCTACCATTTGCCCCAGGGCCCGCAGCAAGGAGCGCAGAAAC
CCAGCCTCTGGGCCAAACCCCATGTTACGACCTCTGCCTCCCCGGCCAGGTCTGCCTGAT
GAACGGCTCAAGAACTGGAGCTGGGACGGGACGGACCTCAGGCCCTCGTCCCAGAGGC
CCCCTTCGAGCAGATCATGGGGTCCCTTCCTGGCTCACCACCCCAACAGTGGCTTTG
CCTCTCCCATCTCGGACCAACTTAGCCCGTTCCAAGTCTGTGAGCAGTGGGGACTTGCGT
CCAATGGGGATTGCCTTGGGAGGGCACCGTGGCACCGGAGAGCTTGGGGCTGCACTGAGC
CGCTTGGCCCTCCGGCCTGAGCCACCCACTTTGAGACGTAGCACTTCTCTCCGCCGCTA
GGGGGCTTTCTGGACCCCTACCTGTTGAGCATACGGACAGAGCCCCCTGTTCCCAT
GGCTCCTTCCACATGATATCCGCCCGTCTCTGAGCCTTTCTACTCTGATGACAAGATG
GCTCATCACACTCCTTCTGGGCTCTGGTCATGTTGGCCTTCGAAACCTGGGAAACACG
TGCTTCTGAATGCTGTGCTGCAGTGTCTGAGCAGCACTCGACCTTTCGGGACTTCTGT
CTGAGAAGGGACTTCCGGCAAGAGGTGCCTGGAGGAGCCGAGCCAAGAGCTCACTGAA
GCCTTTCAGATGTGATTGGTGCCTCTGGCACCTGACTCCTGCGAAGCTGTGAATCCT
ACTCGATTCCGAGCTGTCTCCAGAAATATGTTCCCTCCTTCTCTGGATACAGCCAGCAG
GATGCCCAAGAGTTCTGAAGCTCCTCATGGAGCGGTACACCTTGAAATCAACCGCCGA
GGCCGCCGGGCTCCACCGATACTTGCCAATGGTCCAGTTCCTCTCCACCCCGCCGAGGA
GGGGCTCTGCTAGAAGAACTGAGTTAAGTATGATGACCGAGCCAACCTAATGTGGAAA
CGTTACCTGGAGCGAGAGGACAGCAAGATTGTGGACCTGTTTGTGGGCCAGTTGAAAAGT
TGCTCAAGTGCCAGGCCTGTGGGTATCGCTCCACGACCTTCGAGGTTTTTGTGACCTG
TCCCTGCCCATCCCCAANNAAGGATTTGCTGGGGCAAGGTGTCTCTCGGGGATTGTTTC
AACCTTTTCACTAAGGAAGAAGAGCTAGAGTCGGAGAATGCCCCAGTGTGTGACCGATGT
CGGCAGAAAACCGAAGTACAAAAAGTTGACAGTACAAAGATTCCCTCGAATCCTCGTG
CTCCATCTGAATCGATTTTCTGCCTCCCGAGGCTCCATCAAAAAAGTTGAGTAGGTGTA
GACTTTCCACTGCAGCGACTGAGCCTAGGGGACTTTGCCAGTGACAAAGCCGGAAGTCTCT
GTATACCAGCTGTATGCCCTTTCGCAACCACTCAGGCAGCGTCCACTATGGCCACTACACA
GCCCTGTGCCGGTGCCAGACTGGTTGGCATGTCTACAATGACTCTCGTGTCTCCCTGTCT
AGTGAAAACAGGTGGCATCCAGCGAGGGCTACGTGCTTCTACCAACTGATGCAGGAG
CCACCCCGGTGCCTGTGA
    
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Clone variation with respect to NM_012475.4
 1218 g=>n;1219 a=>n

5' Read Nucleotide Sequence: >OriGene 5' read for NM_012475 unedited

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TGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCAAGAGGCGGGCC
CCTGCGGCGGGAGCGATCTGGGCAACGGCTGCGGCTAAAAGCTGCAGCCGGGCCACGGGG
GGGCTGCACGGGGGTAGTAGGGGTGGCCCTGAACTGGGGCTGGCCCTGGCTGGCTCT
CCC GCCCTCACTGGGGGACAGGTACTGGGGATACGATGGCTGATTGATAGATCTGGT
CCCTGCCCTCAGTGCGTACTGCTCCCACTTTCGTTGATGTGGTAGTGGTGTGACTG
AGCCAACCACCTAATGTGGAAATGAGAGGACAGCAAGATTGTGGGTCCAGCCTGTGGTGT
CCACAATGCCCGAGCCTCTGAGCACCGCCTGGGCCGTACCCGAGAGCCACCTGTTAATA
TCCAGCCCGAGTGGGATCCAAGCTACCATTTGCCCCAGGGCCCGCAGCAAGGAGCGCA
GAAACCCAGCCTCTGGGCCAAACCCCATGTTACGACCTCTGCCTCCCCGGCCAGGTCTGC
CTGATGAACGGCTCAAGAACTGGAGCTGGGACGGNGACGGACCTCAGGCCCTCGTTCCA
GAGGCCCCCTTCGAGCAGATCATGGGGTCCCTTCCTGGCTCACCACCCCAACAGTGG
CTTTGCCCTTCCCATCTCGCACCAACTTACNCCCGTTCCAAGTCTGTGAACAGTGGGGAC
TCGCGTCCCATGGGGATTGCCCTTGGAGGGCACCGCGGCACCCGGAGAGCCTTGGGCTGC
ACTGAGCCGTTTGGCCCTCCGCGCTGAGCCACCCACTTTGAGACGAACTTCCCTCCGC
CGCCTAAGGGGCTTTCCTGGACCCTACCTGATCAAAAACGACAGAACCCCTGCTTCCAT
GGCTCTACAATGAACTCGCCCGTCCCTGACCCTACTACTTGAG
    
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| Restriction Sites: | NotI-NotI |
| ACCN: | NM_012475 |
| Insert Size: | 2500 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_012475.4 , NP_036607.3 |
| RefSeq Size: | 2217 bp |
| RefSeq ORF: | 1698 bp |
| Locus ID: | 27005 |
| UniProt ID: | Q9UK80 |
| Cytogenetics: | 1q23.3 |
| Domains: | UCH |
| Protein Families: | Druggable Genome, Protease |
| Gene Summary: | <p>This gene encodes a member of the C19 peptidase family, also known as family 2 of ubiquitin carboxy-terminal hydrolases. The encoded protein cleaves ubiquitin from ubiquitinated proteins for recycling in intracellular protein degradation. The encoded protein is also able to release NEDD8, a ubiquitin-like protein, from NEDD8-conjugated proteins. This gene has been referred to as USP16 and USP23 but is now known as USP21. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2016]</p> <p>Transcript Variant: This variant (1) differs in the 5' UTR and coding sequence compared to variant 4. The resulting isoform (c) is shorter at the N-terminus compared to isoform a. Variants 1 and 3 both encode the same isoform (c).</p> |