

## Product datasheet for **SC301941**

### USP21 (NM\_001014443) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	USP21 (NM_001014443) Human Untagged Clone
Tag:	Tag Free
Symbol:	USP21
Synonyms:	USP16; USP23
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



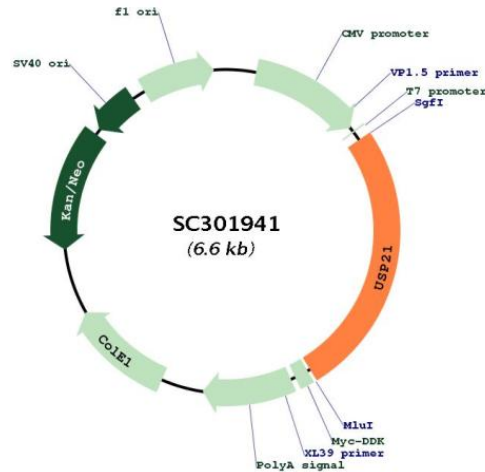
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**Fully Sequenced ORF:** >SC301941 representing NM\_001014443.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCCCCAGGCCCTCTGAGCACCGCTGGGCCGTACCCGAGAGCCACCTGTTAATATCCAGCCCCGAGTG
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CCCATGTTACGACCTCTGCCTCCCGGCCAGGTCTGCCTGATGAACGGCTCAAGAACTGGAGCTGGGA
CGGGGACGGACCTCAGGCCCTCGTCCCAGAGGCCCCCTTCGAGCAGATCATGGGGTTCCCTGCCTGGC
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AGTGGGGACTTGGTCCAATGGGGATTGCCTTGGGAGGGCACCCTGGCACCCGAGAGCTTGGGGCTGCA
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CTTTGCAACCACTCAGGCAGCGTCCACTATGGCCACTACACAGCCCTGTGCCGGTGCCAGACTGGTTGG
CATGTCTACAATGACTCTCGTGTCTCCCTGTGAGTAAAACAGGTGGCATCCAGCGAGGGCTACGTG
CTGTTCTACCAACTGATGCAGGAGCCACCCGGTGCCTGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_001014443

**Insert Size:** 1698 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:** 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:**

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\\_001014443.2](#)

**RefSeq Size:** 2358 bp

**RefSeq ORF:** 1698 bp

**Locus ID:** 27005

**UniProt ID:** [Q9UK80](#)

**Cytogenetics:** 1q23.3

**Protein Families:** Druggable Genome, Protease

**MW:** 62.7 kDa

**Gene Summary:** 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]

Transcript Variant: This variant (3) 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).