

## Product datasheet for **RC207470**

### USP46 (NM\_022832) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	USP46 (NM_022832) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	USP46
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207470 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTGTCCGAAACATCGCCTCCATCTGTAATATGGGCACCAATGCCTCTGCTCTGGAAAAAGACATTG  
GTCCAGAGCAGTTTCCAATCAATGAACACTATTTCCGATTGGTCAATTTGGAAACACATGCTACTGTAA  
CTCCGTGCTTCAGGCATTGTACTTCTGCCGTCCATTCGGGAGAATGTGTTGGCATAACAAGGCCAGCAA  
AAGAAGAAGGAAAACCTTGCTGACGTGCCGCGGACCTTTCCACAGCATTGCCACACAGAAGAAGAAGG  
TTGGCGTCATCCACCAAAGAAGTTCATTTCAAGGCTGAGAAAAGAGAATGATCTCTTTGATAACTACAT  
GCAGCAGGATGCTCATGAATTTTTAAATTTTGGCTAAACACTATTGCGGACATCCTTCAGGAGGAGAAG  
AAACAGGAAAAACAAAATGGAAAATTAATAATGGCAACATGAACGAACTGCGGAAAAATAAAACCAG  
AACTCACCTGGTCCATGAGATTTTTCAGGGAACGCTTACCAATGAAACTCGATGCTTGAAGTGTGAAAC  
TGTTAGTAGCAAAGATGAAGATTTTCTGACCTTTCTGTTGATGTGGAGCAGAATACATCCATTACCCAC  
TGTCTAAGAGACTTCAGCAACACAGAACTGTGTAGTGAACAAAAATATTATTGTGAAACATGCTGCA  
GCAAAACAAGAAGCCAGAAAAGGATGAGGGTAAAAAGCTGCCCATGATCTTGGCCCTGCACCTAAAGCG  
GTTCAAGTACATGGAGCAGCTGCACAGATACCAAGCTGTCTTACCGTGTGGTCTTCCCTCTGGAACCT  
CGGCTCTTCAACACCTCCAGTATGCAGTGAACCTGGACCGCATGTATGACTTGGTTGCGGTGGTCTGTT  
ACTGTGGCAGTGGTCTAATCGTGGCATTATATCACTATTGTGAAAAGTACCGGCTTCTGGCTTTTGT  
TGATGATGACATTGTAGAGAAAATAGATGCTCAAGCTATTGAAGAATTCTATGGCCTGACGTGAGATATA  
TCAAAAAATTCAGAATCTGGATATATTTTATTCTATCAGTCAAGAGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC207470 protein sequence  
Red=Cloning site Green=Tags(s)

MTVRNIASICNMGTNASALEKDIGPEQFPINEHYFGLVNFNGNTCYCNSVLQALYFCRPFRENVLAYKAQQ  
 KKKENLLTCLADLFHSIATQKKKVGVIIPKFFISRLRKENDLFDNYMQQDAHEFLNYLLNTIADILQEEL  
 KQEKQNGKLNKGNMNEPAENNKPEL TWVHEIFQGLTNETRCLNCETVSSKDEDFDLSDVDEQNTSITH  
 CLRDFSNTE TLCSEQKYCETCCSKQEAQKRMVKKLPMILALHLKRFKYMEQLHRYTKLSYRVVFPLEL  
 RLFNTSSDAVNLDRMYDLVAVVVHCGSGPNRGHYITIVKSHGFLLFDDIVEKIDAQAIEEFYGLTSDI  
 SKNSESGYILFYQSRE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6021\\_a04.zip](https://cdn.origene.com/chromatograms/mk6021_a04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_022832

**ORF Size:** 1098 bp

**OTI Disclaimer:** 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_022832.4](#)

**RefSeq Size:** 7981 bp

**RefSeq ORF:** 1101 bp

**Locus ID:** 64854

**UniProt ID:** [P62068](#)

**Cytogenetics:** 4q12

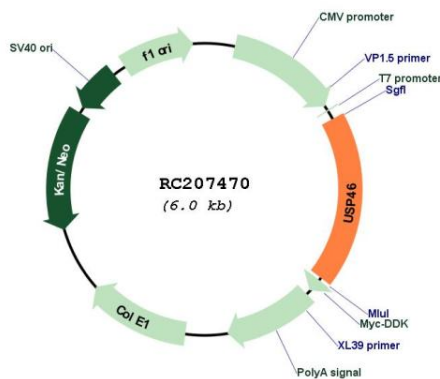
**Domains:** UCH

**Protein Families:** Druggable Genome, Protease

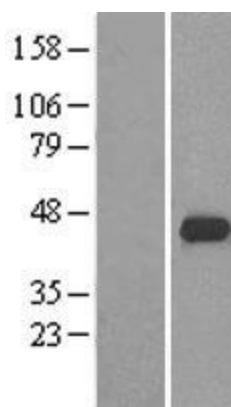
**MW:** 42.4 kDa

**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. USP46 belongs to a large family of cysteine proteases that function as deubiquitinating enzymes (Quesada et al., 2004 [PubMed 14715245]).[supplied by OMIM, Jun 2009]

**Product images:**



Circular map for RC207470



Western blot validation of overexpression lysate (Cat# [LY402951]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207470 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).