

## Product datasheet for **RC239869**

### USP7 (NM\_001286458) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** USP7 (NM\_001286458) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** USP7  
**Synonyms:** HAFOUS; HAUSP; TEF1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC239869 representing NM\_001286458  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGATGCCACGCTTTTATCCAGACAGACCACCAAAAAAGCGTAGGATTCTTCTCCAGTGCAATG  
CTGAATCTGATCCACGTCATGGTCTTGCCATGCACAAGCAGTGCTGAAGATAATAAATTACAGAGATGA  
TGAAAAGTCGTTACGTCGTCGATTAGTCATTTGTTCTCCATAAAGAAAATGATTGGGGATTTTCCAAT  
TTTATGGCCTGGAGTGAAGTGACCGATCCTGAGAAAGGATTTATAGATGATGACAAAAGTTACCTTTGAAG  
TCTTTGTACAGGCGGATGCTCCCATGGAGTTGCGTGGGATTCAAAGAAGCACACAGGCTACGTCGGCTT  
AAAGAATCAGGGAGCGACTTGTTACATGAACAGCCTGCTACAGACGTTATTTTTACGAATCAGCTACGA  
AAGGCTGTGTACATGATGCCAACCGAGGGGGATGATTCGTCCTAAAAGCGTCCCTTAGCATTACAAAGAG  
TGTTCTATGAATTACAGCATAGTGATAAACCTGTAGGAACAAAAAGTTAACAAAGTCATTTGGGTGGGA  
AACTTTAGATAGCTTCATGCAACATGATGTTCCAGGAGCTTTGTCGAGTGTGCTCGATAATGTGAAAAAT  
AAGATGAAAGGCACCTGTGTAGAGGGCACCATACCCAAATTATCCGCGGCAAAATGGTGCCTATATCC  
AGTGTAAGAAGTAGACTATCGGTCTGATAGAAGAGAAGATTATTATGATATCCAGCTAAGTATCAAAGG  
AAAGAAAAATATATTTGAATCATTGTGGATTATGTGGCAGTAGAACAGCTCGATGGGGACAATAAATAC  
GACGCTGGGGAACATGGCTTACAGGAAGCAGAGAAAGGTGTGAAATTCCTAACATTGCCACCAGTGTAC  
ATCTACAATGATGAGATTTATGTATGACCCTCAGACGGACCAAAATATCAAGATCAATGATAGGTTTGA  
ATTTCCAGAGCAGTTACCACTTGATGAATTTTGCAAAAACAGATCCTAAGGACCCTGCAAATTATATT  
CTTCATGCAGTCTGGTTCATAGTGAGATAATCATGGTGGACATTATGTGGTTTATCTAAACCCCAAAG  
GGGATGGCAAATGGTGAAATTTGATGACGACGTGGTGTCAAGGTGTACTAAAGAGGAAGCAATTGAGCA  
CAATTATGGGGTACGATGACGACCTGTCTGTTGACACTGCACTAATGCTTACATGTTAGTCTACATC  
AGGAATCAAACTGAGTGAAGTTTACAGGCGGTACCGACCATGATATTCCTCAGCAGTTGGTGGAGC  
GATTACAAGAAGAGAAAAGGATCGAGGCTCAGAAGCGGAAGGAGCGGCAGGAAGCCCATCTCTATATGCA  
AGTGACAGATAGTCGACAGGACAGTTTTGTGGCCACCAAGGGAATGACATGTACGATGAAGAAAAAGT  
AAATACACTGTGTTCAAAGTATTGAAGAACTCCTCGTTGCTGAGTTGTTTCAGAGCCTCTCTCAGACCA



TGGGATTTCCACAAGATCAAATTCGATTGTGGCCCATGCAAGCAAGGAGTAAATGGAACAAAAACGACCAGC  
 AATGTTAGATAATGAAGCCGACGGCAATAAAACAATGATTGAGCTCAGTGATAATGAAAACCTTGGACA  
 ATATTCCTGGAACAGTTGATCCCGAGCTGGCTGCTAGTGGAGCGACCTTACCCAAGTTTGATAAAGATC  
 ATGATGTAATGTTATTTTTGAAGATGTATGATCCAAAACGCGGAGCTTGAATTACTGTGGGCATATCTA  
 CACACCAATATCCTGTAATAACGTGACTTGTCCCAGTTATGTGTGACAGAGCAGGATTTATCAAGAT  
 ACTAGCCTTATCCTCTATGAGGAAGTTAAACCGAATTTAACAGAGAGAATTCAGGACTATGACGTGTCTC  
 TTGATAAAGCCCTTGATGAACTAATGGATGGTGACATCATAGTATTTTCAGAAGGATGACCCTGAAAATGA  
 TAACAGTGAATTACCCACCGCAAAGGAGTATTTCCGAGATCTCTACCACCGCTTGATGTCAATTTCTGT  
 GATAAAAACAATCCCTAATGATCCTGGATTGTGGTTACGTTATCAAATAGAATGAATATTTTCAGTTG  
 CAAAGACAGTTGCACAGAGGCTCAACACAGATCCAATGTTGCTGCAGTTTTTCAAGTCTCAAGTTATAG  
 GGATGGCCAGGTAATCCTCTTAGACATAAATTATGAAGTACTTTAAGAGATCTTCTACAGTTCTTCAAG  
 CCTAGACAACCTAAGAACTTTACTATCAGCAGCTTAAGATGAAAATCACAGACTTTGAGAACAGGCGAA  
 GTTTTAAATGTATATGGTTAAACAGCCAATTTAGGGAAGAGGAAATAACACTATATCCAGACAAGCATGG  
 GTGTGTCCGGACCTGTTAGAAGATGTAAAAAGCCGTGGAGCTTGGGAGAAAGCATCAGGGAACTT  
 AGGCTGCTAGAAATTGTAAGCTACAAAATCATTGGTGTTCATCAAGAAGATGAACTATTAGAATGTTTAT  
 CTCTGCAACGAGCCGGACGTTTCGAATAGAGGAAATCCCTTTGGACCAGGTGGACATAGACAAAGAGAA  
 TGAGATGCTTGTACAGTGGCGCATTTCACAAAAGAGGTCTTCGGAACGTTCCGGAATCCCGTTTTGCTG  
 AGGATACACCAGGGCGAGCATTTTCGAGAAGTGATGAAGCGAATCCAGAGCCTGCTGGACATCCAGGAGA  
 AGGAGTTTGAGAAGTTTAAATTTGCAATGTAATGATGGGCCGACACCAGTACATAAATGAAGACGAGTA  
 TGAAGTAAATTTGAAAGACTTTGAGCCACAGCCCGGTAATATGTCTATCCTCGGCCTTGGCTAGGGCTC  
 GACCACCTCAACAAAGCCCCAAAGAGGAGTCGTACACTTACCTTAAAAGGCCATTAATCCATAAC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC239869 representing NM\_001286458  
 Red=Cloning site Green=Tags(s)

MVMPRFYPDRPHQKSVGFFLQCNAESDSTSWSCHAQAVLKIINYRDEKSFRRISHLFFHKENDWGFNS  
 FMAWSEVTDPEKGFIDDDKVTFEVQADAPHGVAWDSKKHTGYVGLKNQGATCYMNSLLQTLFFTNQLR  
 KAVYMPTEGDDSSKSVPLALQRVYELQHSDKPVGTTKLSFGWETLDSFMQHDVQELCRVLLDNVEN  
 KMKGTCEGTIPKLRGKMSYIQCKEVDYRSDRREDYDIQLSIKGGKNIFFSFVDYVAVEQLDGNKY  
 DAGEHGLQEAEGVKFLTLPPVHLQLMRMYDPQTDQNIKINDRFEFPEQLPLDEFQKTDPKDPANYI  
 LHAVLVHSGDNHGGHYVYVYLNPKGDGKWKCFDDDVSRCTKEEAIEHNYGGHDDDL SVRHCTNAYMLVYI  
 RESKLVAVTDHDIQQLVERLQEEKRIEAQRKERQEAHL YMQVQI VAEDQFCGHQNDMYDEEKV  
 KYTVFKVLKNSSLAEFVQSLSQTMGFPQDQIRLWPMQARSNGTKRPAMLDNEADGNKTMIELSDNENPWT  
 IFLETVPELAASGATLPKFDKDHVMLFLKMYDPKTRSLNYCGHIYTPISCKIRDLLPVMCDRAGFIQD  
 TSLILYEEVKNLTERIQDYDVSLDKALDELMDGDIIVFQKDDPENDNSELPTAKEYFRDLYHRVDVIFC  
 DKTIIPNDPGFVVTLSNRMNYFQVAKTVAQRLNTDPMQLLQFFKSQGYRDGPNPLRHNIEGTLRDLLQFFK  
 PRQPKLYYQQLKMKITDFENRRSFKCIWLSQFREEEITLYPKHGCVRDLLEECKKAVELGEKASGKL  
 RLLEIVSYKIIIGVHQEDELLECLSPATSRTRFRIEIEIPLDQVDIDKENEMLVVAHFHKEVFGTFGIPFL  
 RIHQGEHFREVMKRIQSLLDIQEKEFEKFKFAIVMMGRHQYINEDEYEVNLKDFEPQGNMSHRPWGL  
 DHFNKAPKRSRYTYLEKAIKIHN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

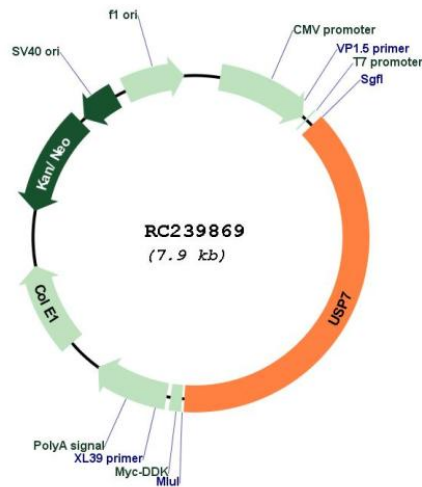
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001286458  
 ORF Size: 3009 bp

|                               |   |
|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>                     |
| <b>RefSeq:</b>                | <a href="#">NM_001286458.2</a>  |
| <b>RefSeq Size:</b>           | 5456 bp   |
| <b>RefSeq ORF:</b>            | 3012 bp   |
| <b>Locus ID:</b>              | 7874  |
| <b>Cytogenetics:</b>          | 16p13.2   |
| <b>Protein Families:</b>      | Druggable Genome, Protease  |
| <b>MW:</b>                    | 117.4 kDa   |
| <b>Gene Summary:</b>          | The protein encoded by this gene belongs to the peptidase C19 family, which includes ubiquitinyl hydrolases. This protein deubiquitinates target proteins such as p53 (a tumor suppressor protein) and WASH (essential for endosomal protein recycling), and regulates their activities by counteracting the opposing ubiquitin ligase activity of proteins such as HDM2 and TRIM27, involved in the respective process. Mutations in this gene have been implicated in a neurodevelopmental disorder. [provided by RefSeq, Mar 2016] |