

## Product datasheet for RC239953

### USP7 (NM\_001286457) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	USP7 (NM_001286457) 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:	>RC239953 representing NM_001286457 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCTGGGAACACAGGCTTGGGCTCGAAGCGGGAGATACAGATGACCCACCAAGAATTACTCAGAACC  
CTGTGATCAATGGGAATGTGGCCCTGAGTGATGGACACAACACCGCGGAGGAGACATGGAGGATGACAC  
CAGTTGGCGCTCCGAGGCAACCTTTCAGTTCACGTGGAGCGCTTCAGCAGACTGAGTGAGTCGGTCCTT  
AGCCCTCCGTGTTTTGTGCGAAATCTGCCATGGAAGATTATGGTGATGCCACGCTTTTATCCAGACAGAC  
CACACCAAAAAAGCGTAGGATTCTTCTCCAGTGAATGCTGAATCTGATTCCACGTCATGGTCTTGCCA  
TGCACAAGCAGTGCTGAAGATAATAAATTACAGAGATGATGAAAAGTCGTTTCAGTCGTCGTATTAGTCAT  
TTGTTCTTCCATAAAGAAAAATGATTGGGGATTTTCCAATTTTATGGCCTGGAGTGAAGTGACCGATCCTG  
AGAAAGGATTTATAGATGATGACAAAGTTACCTTTGAAGTCTTTGTACAGGCGGATGCTCCCATGGAGT  
TGCGTGGGATTCAAAGAAGCACACAGGCTACGTCGGCTTAAAGAATCAGGGAGCGACTTGTACATGAAC  
AGCCTGCTACAGACGTTATTTTTCACGAATCAGCTACGAAAGGCTGTGTACATGATGCCAACCGAGGGGG  
ATGATTTCGTCTAAAAGCGTCCCTTTAGCATTACAAAGAGTGTTCTATGAATTACAGCATAGTGATAAAC  
TGTAGGAACAAAAAGTTAACAAAGTCATTTGGGTGGGAAACTTTAGATAGCTTCATGCAACATGATGTT  
CAGGAGCTTTGTCGAGTGTGCTCGATAATGTGAAAAATAAGATGAAAGGCACCTGTGTAGAGGGCACCA  
TACCCAAATTATCCGCGGCAAAATGGTGTCTATATCCAGTGTAAGAAGTAGACTATCCGTCTGATAG  
AAGAGAAGATTATTATGATATCCAGCTAAGTATCAAAGGAAAGAAAAATATATTTGAATCATTTGTGGAT  
TATGTGGCAGTAGGACAGCTCGATGGGGACAATAAATACGACGCTGGGGAACATGGCTTACAGGAAGCAG  
AGAAAGGTGTGAAATTCCTAACATTGCCACCAGTGTACATCTACAACCTGATGAGATTTATGATGACCC  
TCAGACGGACCAAAATATCAAGATCAATGATAGGTTTGAATCCAGAGCAGTTACCACTGATGAATTT  
TTGCAAAAAACAGATCCTAAGGACCCTGCAAAATTATTTCTTCATGCAGTCCTGGTTCATAGTGGAGATA  
ATCATGGTGGACATTATGTGTTTATCTAAACCCAAAGGGGATGGCAAATGGTGTAAATTTGATGACGA  
CGTGGTGTCAAGGTGACTAAAGAGGAAGCAATTGAGCACAATTATGGGGTTCACGATGACGACCTGTCT  
GTTTCGACACTGCACTAATGCTTACATGTTAGTCTACATCAGGGAATCAAACTGAGTGAAGTTTTACAGG



[View online >](#)

CGGTCACCGACCATGATATTCCTCAGCAGTTGGTGGAGCGATTACAAGAAGAGAAAAGGATCGAGGCTCA  
 GAAGCGGAAGGAGCGGCAGGAAGCCCATCTCTATATGCAAGTGCAGATAGTCGCAGAGGACCAGTTTTGT  
 GGCCACCAAGGGAATGACATGTACGATGAAGAAAAAGTAAATACACTGTGTTCAAAGTATTGAAGAACT  
 CCTCGCTTGCTGAGTTTGTTCAGAGCCTCTCAGACCATGGGATTTCCACAAGTCAAATTCGATTGTG  
 GCCCATGCAAGCAAGGAGTAATGGAACAAAACGACCAGCAATGTTAGATAATGAAGCCGACGGCAATAAA  
 ACAATGATTGAGCTCAGTGATAATGAAAACCTTGGACAATATTCCTGGAACAGTTGATCCCGAGCTGG  
 CTCCATGTGGAGCGACCTTACCCAAGTTTGATAAAGATCATGATGTAATGTTATTTTTGAAGATGTATGA  
 TCCCAAAACGCGGAGCTTGAATTAAGTGTGGGCATATCTACACACCAATATCCTGTAAAATACGTGACTTG  
 CTCCCAGTTATGTGTGACAGAGCAGGATTTATTCAAGATACTAGCCTTATCCTCTATGAGGAAGTTAAAC  
 CGAATTTAACAGAGAGAATTCAGGACTATGACGTGTCTTTGATAAAGCCCTTGATGAACTAATGGATGG  
 TGACATCATAGTATTTGAGAAGGATGACCCTGAAAATGATAACAGTGAATTACCCACCGCAAAGGAGTAT  
 TTCCGAGATCTTACCACCGCTTGATGTCATTTTCTGTGATAAAAACAATCCCTAATGATCCTGGATTTG  
 TGGTTACGTTATCAAATAGAATGAATTATTTTTCAGGTTGCAAAGACAGTTGCACAGAGGCTCAACACAGA  
 TCCAATGTTGCTGCAGTTTTTCAAGTCTCAAGGTTATAGGGATGGCCAGGTAATCCTCTTAGACATAAT  
 TATGAAGTACTTTAAGAGATCTTCTACAGTTCTCAAGCCTAGACAACCTAAGAACTTTACTATCAGC  
 AGCTTAAGATGAAAATCACAGACTTTGAGAACAGGCGAAGTTTTAAATGTATATGGTTAAACAGCCAATT  
 TAGGGAAGAGGAAATAACACTATATCCAGACAAGCATGGGTGTGTCCGGGACCTGTTAGAAGAATGTAAA  
 AAGGCCGTGGAGCTTGGGGAGAAAGCATCAGGGAACTTAGGCTGCTAGAAATTGTAAGTACAAAATCA  
 TTGGTGTTCATCAAGAAGATGAACTATTAGAATGTTTATCTCCTGCAACGAGCCGGACGTTTTGGAATAGA  
 GGAATCCCTTTGGACCAGTGGACATAGACAAAGAGAATGAGATGCTTGTACAGTGGCGCATTTCACAC  
 AAAGAGTCTTCGGAACGTTCCGGAATCCCGTTTTGCTGAGGATACACCAGGGCGAGCATTTTCGAGAAG  
 TGATGAAGCGAATCCAGAGCCTGCTGGACATCCAGGAGAAGGAGTTTGAAGTAAATTTGAAAGACTTTGAGCCACAG  
 AATGATGGGCCGACACCAGTACATAAATGAAGACGAGTATGAAGTAAATTTGAAAGACTTTGAGCCACAG  
 CCGGTAATATGTCTCATCTCGGCCTTGGCTAGGGCTCGACCCTTCAACAAAGCCCAAGAGGAGTC  
 GCTACACTTACCTTAAAAGGCCATTAATAATCCATAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC239953 representing NM\_001286457  
 Red=Cloning site Green=Tags(s)

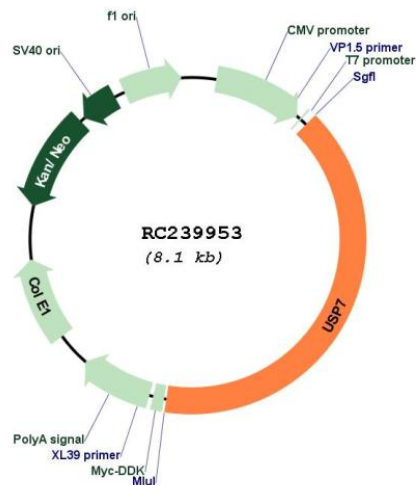
MAGNHRLEAGDTPPRITQNPVINGNVALSDGHNTAEEDMEDDTSWRSEATFQFTVERFSRLSESVL  
 SPPCFVRNLPWKIMVMPRFYPDRPHQKSVGFFLQCNESDSTSWSCHAQAVLKIINRYRDEKSFRRISH  
 LFFHKENDWGF SNFMAWSEVTDPEKGFIDDDKVTFEVQADAPHGVAWDSKKHTGYVGLKNQGATCYMN  
 SLLQTLFFTNQLRKAVYMMPTGDDSSKSVPLALQRVYELQHSKDPVGTKKLTKSFGWETLDSFMQHVDV  
 QELCRVLLDNVENKMKGTVEGTIPKLFKGMVSYIQCKEVDYRSDRREDDYDIQLSFKGKNIFESFVD  
 YVAVGQLDGDNKYDAGEHGLQEAEGVKFLLPVLHLQLMRFMYDPQTDQNIKINDRFEFPEQLPLDEF  
 LQKTDPKDPANYILHAVLVHSGDNHGGHYVYLNPKGDGKWKCFDDDVVSRCTKEAIEHNYGGHDDLS  
 VRHCTNAYMLVYIRESKLVSEVLQAVTDHDIPQQLVERLQEEKRQIEAQRKERQEAHLYMQVQIVAEDQFC  
 GHQGNMDEEKVKYTVFKVLKNSSLAEFVQSLSQTMGFPQDQIRLWPMQARSNGTKRPAMLDNEADGNK  
 TMIELSDNENPWTIFLETVDPELAASGATLPKFDKDHVMLFLKMYDPKTRSLNYCGHIYTPISCKIRD  
 LPVMCDRAGFIQDTSILYEEVKPNLTERIQDYDVSLLKALDELMDGDIIVFQKDDPENDNSELP  
 TKEYFRDLYHRVDVIFCDKTIIPNDPGFVVTLSNRMNYFQVAKTVAQRLNTDPMLLQFFKSQGYRDPGNPLRHN  
 YEGTLRDLLQFFKPRQPKLLYYQQLKMKITDFENRRSFKCIWLNQSFREEEITL YPKHGCVRDLLEECK  
 KAVELGEKASGLRLLIIVSYKIIIGVHQEDELLECLSPATSRTFRIEEIPLDQVDIDKENEMLVVAHFH  
 KEVFGTFGIPFLLRHQGEHFREVMKRIQSLLDIQEKEFEKFKFAIVMMGRHQYINEDEYEVNLDKDFEPQ  
 PGNMSHRPPWLGLDHFNKAPKRSRYTYLEKAIKIHN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

**Plasmid Map:**


ACCN: NM\_001286457

ORF Size: 3258 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.

<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>	<u>NM_001286457.1, NP_001273386.1</u>
<b>RefSeq Size:</b>	5281 bp
<b>RefSeq ORF:</b>	3261 bp
<b>Locus ID:</b>	7874
<b>UniProt ID:</b>	<u>Q93009</u>
<b>Cytogenetics:</b>	16p13.2
<b>Protein Families:</b>	Druggable Genome, Protease
<b>MW:</b>	126.6 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]