

## Product datasheet for RC215749

### USP6 (NM\_004505) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	USP6 (NM_004505) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	USP6
Synonyms:	HRP1; Tre-2; TRE2; TRE17; TRESMCR; USP6-short
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215749 representing NM_004505 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACATGGTAGAGAATGCAGATAGTTTGCAGGCACAGGAGCGGAAGGACATACTTATGAAGTATGACA  
AGGGACACCGAGCTGGGCTGCCAGAGGACAAGGGGCTGAGCCCGTTGGAATCAACAGCAGCATTGATCG  
TTTTGGCATTTCATGAGACGGAGCTGCCTCCTGTGACTGCACGGGAGGCGAAGAAAATTCGGCGGGAG  
ATGACACGAACGAGCAAGTGGATGAAAATGCTGGGAGAATGGGAGACATAAAGCACAGTAGCAAATCA  
TAGATCGAGTGTACAAGGGAATCCCATGAACATCCGGGGCCCGGTGTGGTCAGTCCTCCTGAACATTCA  
GGAAATCAAGTTGAAAAACCCCGGAAGATACCAGATCATGAAGGAGAGGGCAAGAGGTCATCTGAACAC  
ATCCACCACATCGACCTGGACGTGAGGACGACTCTCCGGAACCATGTCTTCTTAGGGATCGATATGGAG  
CCAAGCAGAGGGAATTTCTACATCCTCCTGGCCTATTCGGAGTATAACCCGGAGGTGGGCTACTGCAG  
GGACCTGAGCCACATCACCGCCTGTTCCTCCTTATCTGCCTGAGGAGGACGCATTCTGGGCACTGGTG  
CAGCTGCTGGCCAGTGAGAGGCACTCCCTGCCAGGATTCACAGCCAAATGGTGGGACAGTCCAGGGGC  
TCCAAGACCAACAGGAGCATGTGGTACCAAGTCAACCCAAGACCATGTGGCATCAGGACAAGGAAGG  
TCTATGCGGGCAGTGTGCCTCGTTAGGCTGCCTTCTCCGGAACCTGATTGACGGGATCTCTCGGGCTC  
ACCTGCGCCTGTGGGACGTGATTTGGTGAAGGAGAACAGGTGTTGATGCCAATAACCAGCATTGCTC  
TTAAGTTTCAGCAGAAGCGCCTCATGAAGACATCCAGGTGTGGCCTGTGGGCACGCTCGCGGAACCAATT  
CTTCGATACCTGGCCATGAACGATGACACCGTCTCAAGCATCTTAGGGCCTCTACGAAGAACTAACA  
AGGAAGCAAGGGGACCTGCCACCCAGCCAAACGCGAGCAAGGGTCTTGGCACCCAGGCTGTGCCGG  
CTTCACGTGGTGGGAAGACCCCTGCAAGGGGTATAGGCAGGCCCTCCAGGCCACCCAGCCAGTTCCA  
GCGGCCCATTTGCTCAGCTTCCCGCCATGGGCATCTCGTTTTTCCACGCCCTGTCTGGTGGGGCTGTC  
CGGAAGACACGTACCCTGTGGCACTCAGGGTGTGCCAGCCTGGCCCTGGCTCAGGGAGGACCTCAGG  
GTTCTGGAGATTCTGGAGTGAAGTCAATGCCCGGCTCCCAACGGACCTGGATATAGGGGGCCCTTG  
GTTCCCCATTATGATTTGAATGGAGCTGCTGGTCCGTGCCATATCCAGGAGGACAGCTGGCCACC



[View online »](#)

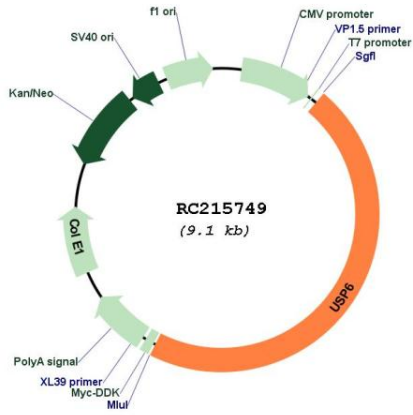
TGCTGGCAGGCTGAACACTGCGGAGAGGTTCAACAACAAAGATATGAGTTGGCCTGAGGAGATGTCTTTA  
CAGCAAAATAGTAGTAAAAAGATAGACAAAAGGTTCCACAGAAAAGGGAGCCACAGGTCTAAGCAACCT  
GGGAAACACATGCTTCATGAACCTCAAGCATCCAGTGCCTTAGTAACACACAGCCACTGACACAGTATTTT  
ATCTCAGGGAGACATCTTATGAACCTCAACAGGACAAATCCCATTGGTATGAAGGGGCATATGGCTAAAT  
GCTATGGTGATTTAGTGCAGGAACCTGGAGTGGAACTCAGAAGAGTGTGCCCATTAAGCTTCGGCG  
GACCATAGCAAAATATGCTCCCAAGTTTGGTGGTTTCAGCAACAAGACTCCCAAGAACTTCTGGCTTTT  
CTCTTGGATGGTCTTCATGAAGATCTCAACCGAGTCCATGAAAAGCCATATGTGGAACCTGAAGGACAGTG  
ATGGCCGACCAGACTGGGAAGTAGCTGCAGAGGCCTGGGACAACCATCTAAGAAGAAATAGATCAATTAT  
TGTGGATTTGTTCCATGGGCAGCTAAGATCTCAAGTCAAATGCAAGACATGTGGGCATATAAGTGTCCGA  
TTTGACCTTTCAATTTTTTGTCTTTGCCACTACCAATGGACAGTTACATGGACTTAGAAAATAACAGTGA  
TTAAGTTAGATGGTACTACCCCTGTACGGTATGGACTAAGACTGAATATGGATGAAAAGTACACAGGTTT  
AAAAAACAGCTGAGGGATCTCTGTGGACTTAATTCAGAACAAATCCTACTAGCAGAAGTACATGATTCC  
AACATAAAGAACCTTCTCAGGATAACCAAAAAGTACAACCTCAGTGAGCGGATTTTTGTGTGCATTTG  
AAATTCCTGTCCCTTCATCTCAATTTTCACTTCTAGTCCAACACAAATAGATTTCTCTCTTACCATC  
TACAAATGGAATGTTACCCCTAACTACCAATGGGGACCTACCCAAACCAATATTCATCCCAATGGAATG  
CCAAACACTGTTGTGCCATGTGGAACCTGAGAAGAACTTCAAAATGGAATGGTTAATGGTCACATGCCAT  
CTCTTCTGACAGCCCTTTACAGGTTACATCATTGCAGTCCACCAGAAAATGATGAGGACAGAAGTGA  
TTTCTGTACCTCAGGAGAATCGCCCCAGCCTTTTGGAAATGCCATTGATTGTTCCATGCACTGTGCAT  
ACCCGGAAGAAAGACCTATATGATGCGGTTTGGATTCAAGTATCCTGGTTAGCAAGACCCTCCACCTC  
AGGAAGCTAGTATTCATGCCCAGGATCGTGATAACTGTATGGGCTATCAATATCCATTACTCTACGAGT  
TGTGCAGAAAGATGGGAACCTCTGTGCTTGGTGGCCACAGTATAGATTTGCAGAGGCTGTAATTTGAT  
TGTGGGAAGACAGAGCTTTCATTGGAATGCCTATATTGCTGTGGATTGGCACCCACAGCCCTTACC  
TTCCGCTATCAACATCCCAGGAAAAGGTTGTAGATAAGCATGAGAGTGTGGAGCAGAGTGGCGAGCGCA  
AGCCGAGCCCATCAACCTGGACAGCTGTCTCCGTGCTTTACCAGTGAGGAAGAGCTAGGGGAAAGTGAG  
ATGTAATACTGTTCCAAGTGTAAGACCCACTGCTTAGCAACAAAGAAGCTGGATCTCTGGAGGCTTCCAC  
CCTTCTGATTATTACCTTAAGCGATTCAATTTGTAATGATCAGTGGATAAAAATCACAGAAAATTTGT  
CAGATTTCTTCGGGAAAGTTTTGATCCGAGTGCTTTTTTGGTACCACGAGACCCGGCCCTCTGCCAGCAT  
AAACCACTCACACCCAGGGGATGAGCTCTCAAGCCCAGGATTCTGGCAAGAGAGGTGAAGAAAGTGG  
ATGCGCAGAGTTCGGCTGGAAAAGAGGACATGCTCCTAAGCAAAAAGCCATCCTCACTCAGCGCTAACAT  
CAGCAGCAGCCAAAAGGTTCTCTTCTCATCAAGAAAAGTGAACCAGCTGTCCCTCCAGCAAAAAC  
AGCAGCCCTAATAGCAGCCACGACTTTGGGGAGGAGCAAGGGAGGCTCCGGCTGCCCAGATTGGCA  
GCAAAAATAAGCCGTCAAGTAGTAAGAAGAACTTGGATGCCAGCAAGAGAATGGGGCTGGGCAGATCTG  
TGAGCTGGCTGACGCCTTGAGCCGAGGGCATAAGCGGGGGGAGCAACCCAGAGCTGGTCACTCCTCAG  
GACCATGAGGTAGCTTTGGCCAATGGATTCTTTATGAGCATGAAGCATGTGGCAATGGCTGTGGCGATG  
GCTACAGCAATGGTCAGCTTGGAAACCACAGTGAAGAAGACAGCACTGATGACCAAGAGAGAAGACTCA  
TATTAAGCCTATTTATAATCTATATGCAATTTTATGCCATTTCAGGAATTTGAGTGGGGGCCATTACATC  
ACTTATGCCAAAAACCAAACTGCAAGTGGTACTGTTATAATGACAGCAGCTGTGAGGAACCTCACCCCTG  
ATGAAATTGACACCGACTCTGCCTACATTTCTTCTATGAGCAGCAGGGGATAGACTACGCACAATTTCT  
GCCAAAGATTGATGGCAAAAAGATGGCAGACACAAGCAGTACGGATGAAGACTCTGAGTCTGATTACGAA  
AAGTACTCTATGTTACAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



<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_004505.4</a>
<b>RefSeq Size:</b>	7971 bp
<b>RefSeq ORF:</b>	4221 bp
<b>Locus ID:</b>	9098
<b>UniProt ID:</b>	<a href="#">P35125</a>
<b>Cytogenetics:</b>	17p13.2
<b>Protein Families:</b>	Druggable Genome, Protease
<b>MW:</b>	158.5 kDa
<b>Gene Summary:</b>	Deubiquitinase with an ATP-independent isopeptidase activity, cleaving at the C-terminus of the ubiquitin moiety. Catalyzes its own deubiquitination. In vitro, isoform 2, but not isoform 3, shows deubiquitinating activity. Promotes plasma membrane localization of ARF6 and selectively regulates ARF6-dependent endocytic protein trafficking. Is able to initiate tumorigenesis by inducing the production of matrix metalloproteinases following NF-kappa-B activation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC215749