

## Product datasheet for **RC239787**

### USP28 (NM\_001301029) Human Tagged ORF Clone

#### Product data:

|                    |   |
|--------------------|---|
| Product Type:      | Expression Plasmids                         |
| Product Name:      | USP28 (NM_001301029) Human Tagged ORF Clone |
| Tag:               | Myc-DDK                                     |
| Symbol:            | USP28                                       |
| Vector:            | pCMV6-Entry (PS100001)                      |
| E. coli Selection: | Kanamycin (25 ug/mL)                        |
| Cell Selection:    | Neomycin                                    |



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**ORF Nucleotide  
Sequence:**

>RC239787 representing NM\_001301029  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCATGAAGCAACCTCTGCAGAACTAAACGCTCAAAGAGAAAACGCTGTGAAGCTGGGAGAAAACC  
 CCAATCCCAATGACTGGAGGAGAGTTGATGTTGGCCAGTTGGGCTGAAAAATGTTGGCAATACATGTTG  
 GTTTAGTGCTGTTATTCAGTCTCTCTTTCAATTGCCTGAATTTGGAAGACTTGTTCTCAGTTATAGTCTG  
 CCACAAAATGACTTGAAAATTGTGCAAGTCATACAGAAAAGAGAAATATCATGTTTATGCAAGAGCTTC  
 AGTATTTGTTGCTCTAATGATGGGATCAAATAGAAAATTTGTAGACCCGCTGCAGCCCTGGATCTATT  
 AAAGGGAGCATTCCGATCATCTGAGGAACAGCAGCAAGATGTGAGTGAATTCACACACAAGCTCCTGGAT  
 TGGCTAGAGGACGATTCCAGCTAGCTGTTAATGTTAACAGTCCCAGGAACAAATCTGAAAATCCAATGG  
 TGCAGCTGTTCTATGGTACTTTCCTGACTGAAGGGTTCGTGAAGGAAAACCTTTTGTAAACATGAGAC  
 CTTCCGGCCAGTATCCTCTCAGGTAACCGTTATCGCAACTTAGACGAGTGTGGAAGGGGCCATGGTG  
 GAGGGTGTGTTGAGCTTCTCCCTCCGATCACTCGGTGAAGTATGGACAAGAGCGTTGGTTTACAAGC  
 TACCTCCAGTGTGACCTTTGAACTCTCAAGATTTGAGTTAATCAGTCCCTGGGCAGCCAGAGAAAAT  
 TCACAATAAGCTGGAATTTCTCAGATTATTTATATGGACAGGTACATGTACAGGAGCAAGGAGCTTATT  
 CGAAAATAAGAGAGAGTGTATTCGAAAGTTGAAGGAGGAAAATAAAATTTCTGCAGCAAAAATTTGAAAAGGT  
 ATGTGAAAATAGGCTCAGGCCAGCTCGGTTCCCGCTCCCGGACATGCTGAAATATGTTATTGAATTTGC  
 TAGTACAAAACCTGCCTCAGAAAGCTGTCCACCTGAAAGTGACACACATATGACATTACCACTTTCTTCA  
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 AAAGTACCTTTTCTCTCCTGAAGATTCTTACCAAGTCTAAACCACTGACATCTCTCGGTCTTCCAT  
 GGAAATGCCTTACAGCCAGCTCCACGAACAGTACAGATGAGGAGATAAATTTGTTAAGACCTGTCTT  
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 CTATTGAACAGATGACTGCGATCCTCTCCTTCGTGAGGTGCCTTATCGTTGCATGCAGTTCTTGTTC  
 TGAAGGACAAGCAAAATGCTGGACACTATTGGGCCTATATCTATAATCAACCCCGACAGAGCTGGCTCAAG  
 TACAATGACATCTCTGTTACTGAATCTTCTGGGAAGAAGTTGAAAGAGATTCTATGGAGGCTGAGAA  
 ATGTTAGTGCTTACTGTCTGATGACATTAATGACAACTACCCTACTTCAATGCAGAGGCGACCCCAAC  
 TGAATCAGATCAAATGTCAGAAGTGAAGCCCTATCTGTGGAAGTCAAGCATTACATTGAGGAGATAAC  
 TGGCGGTTTGGAGGAAAGTAGAGGAGTGGGAAGAAGAGCAGTCTTGCAAAATCCCTCAAATGGAGTCT  
 CCACCACTCCTCATCACAGGACTACTCATACACAAGAGCCTTCAGTAGCCTCTTCTCATGGGTTTCG  
 CTGCTTGTGCTGAGCATGCTGTGATTGTAAAGGAGCAAACTGCCAGGCTATTGCAAAACAGCCCGT  
 GCCTATGAGAAGAGCGGTGTAGAAGCGGCACTGAGTGAGGCATTCCATGAAGAATACTCCAGGCTCTATC  
 AGCTTGGCAAAGAGACCCCACTCTCACAGTGATCCTCGACTTCAGCATGTCCTTGTCTACTTTTTCCA  
 AAATGAAGCACCCAAAAGGGTAGTAGAACGAACCTTCTGGAACAGTTTGCAGATAAAAAATCTTAGCTAT  
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 AGGCCTAGAAGTCTATCAAAAAGGAAAGTACCAAGAGGCACTTTCTACCTGGTATATGCCTACCCAGAGC  
 AATGTGCTGCTGATGAAGGGCCCGCCGGGGTCAAGAATCCGTGATTGCTTTATACCGAAGAA  
 AATGCCTTCTGGAGCTGAATGCCAAAGCAGCTTCTCTTTTGAACAAATGATGATCACTCCGTAAGTGA  
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 GATGATCTGGATGCCATTGAGGTGATGAGAAACATTGGTGTCTTACCTTGGGCAAGATATTGCAGAAA  
 ATCTGCAGCTGTGCTAGGGGAGTTTCTACCCAGACTTCTAGATCCTTCTGCAGAAATCATCGTCTTGA  
 AGAGCCTCCAATTCGACCAATTCTCCCTATGACCTATGTAGCCGATTTGCAGCTGTCATGGAGTCA  
 ATTCAGGGAGTTCAACTGTGACAGTGAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAAGTTTAA

Protein Sequence: >RC239787 representing NM\_001301029  
 Red=Cloning site Green=Tags(s)

MHEATSAETKRKRKRCEVWGENPNPNDWRRVDGWPVGLKNVNTCWFSAVIQSLFQLPEFRRLVLSYSL  
 PQNVLENCRSHTEKRNIMFMQELQYLFALMMGNSNRKFVDPASAALDLLKGAFRSSEEQQQDVSEFTHKLLD  
 WLEDAFQLAVNVNSPRNKSENPMVQLFYGTFLTEGVREGKPFNNETFGQYPLQVNGYRNLDECLEGAMV  
 EGDVELLPSDHSVKYQGERWFTKLPPVLT FELSRFEFNQSLGQPEKIHNKLEFPQIIYMDRYMYRSKELI  
 RNKRECIRKLKEEIKILQQKLERVYKYGSGPARFPLPDMLKYVIEFASTKPASESCPPESDTHMTLPLSS  
 VHCSVSDQTSKESTSTESSSQDVSTFSSPEDSLPKSKPLTSSRSSMEMPSQPAPRTVTDEEINFVKTCL  
 QRWSEIEQDIQDLKTCIASTTQTEQMYCDPLLRQVPYRLHAVLVHEGQANAGHYWAYIYNQPRQSWLK  
 YNDISVTESSWEEVERDSYGGLRNVSAYCLMYINDKLPYFNAAEAPTESDQMSEVEALSVELKHYIQEDN  
 WRFEQEVEEWEQSQCKIPQMESSTNSSQDYSTSQEPSVASSHGVRCLSEHAVIVKEQTAQAIANTAR  
 AYEKSGVEAALSEAFHEEYSRLYQLAKETPTSHSDPRLQHVLYVFFQNEAPKRVERTLLEQFADKNLSY  
 DERSISIMKVAQAKLKEIGPDDMNMEYKWHEDYSLFRKVSVYLLTGLELYQKGYQEALSYLVYAYQS  
 NAALLMKGPRRGVKEVIALYRRKCLELNAKAASL FETNDDHSVTEGINVMNELIIPCIIHLIINNDISK  
 DDLDAIEVMRNHWCSYLGQDIAENLQLCLGEFLPRLDPSAEIIVLKEPPTIRPNSPYDLCSRFAAVMES  
 IQGVSTVTVK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

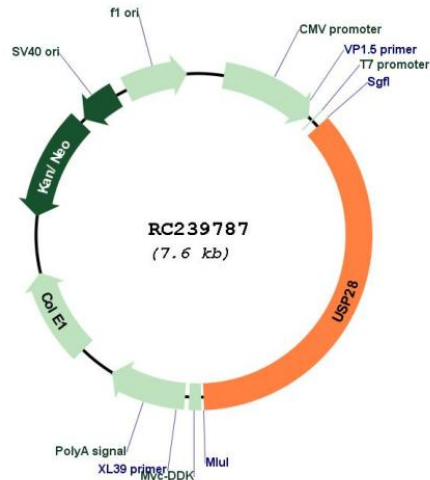
Restriction Sites:

SgfI-MluI

Cloning Scheme:



## Plasmid Map:



ACCN: NM\_001301029

ORF Size: 2760 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\\_001301029.2](#)

RefSeq Size: 4371 bp

RefSeq ORF: 2763 bp

Locus ID: 57646

Cytogenetics: 11q23.2

Protein Families: Protease

**MW:** 106.3 kDa

**Gene Summary:** The protein encoded by this gene is a deubiquitinase involved in the DNA damage pathway and DNA damage-induced apoptosis. Overexpression of this gene is seen in several cancers. [provided by RefSeq, Oct 2016]