

## Product datasheet for **RC238994**

### USP38 (NM\_001290326) Human Tagged ORF Clone

#### Product data:

|                    |   |
|--------------------|---|
| Product Type:      | Expression Plasmids                         |
| Product Name:      | USP38 (NM_001290326) Human Tagged ORF Clone |
| Tag:               | Myc-DDK                                     |
| Symbol:            | USP38                                       |
| Synonyms:          | HP43.8KD                                    |
| Vector:            | pCMV6-Entry (PS100001)                      |
| E. coli Selection: | Kanamycin (25 ug/mL)                        |
| Cell Selection:    | Neomycin                                    |



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**ORF Nucleotide Sequence:**

>RC238994 representing NM\_001290326  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAACAGTGTTATACAAGCCTTGTTTATGGCCACAGATTTTCAGGAGACAAGTATTATCTTTAAATCTAA  
 ATGGGTGCAATTCATTAATGAAAAAATTACAGCATCTTTTTGCCTTTCTGGCCCATACACAGAGGAAGC  
 ATACGCACCTCGGATATTCTTTGAGGCTTCAGACCTCCATGGTTTACTCCCAGATCACAGCAAGACTGT  
 TCTGAATACCTCAGATTTCTCCTTGACAGGCTCCATGAAGAAGAAAAGATCTTGAAGTTTCAGGCCTCAC  
 ACAAGCCTTCTGAAATTCGGAATGCAGTGAACTTCTTTACAGGAAGTAGCTAGTAAAGCAGCAGTACT  
 AACAGAGACCCCTCGTACAAGTGACGGTGAGAAGACTTTAATAGAAAAATGTTTGGAGGAAAACTACGA  
 ACTCACATACGTTGTTTGAAGTGCAGGAGTACCTCACAAAAGTGAAGCCTTTACAGATCTTTTCGCTTG  
 CCTTTTGTCTTCTCTTTTGGAAAACATGTCTGTCCAAGATCCAGCATCATCACCCAGTATAACAAGA  
 TGGTGGTCTAATGCAAGCCTCTGTACCCGGTCTTCAGAAGAACCAGTAGTTTATAATCCAACAACAGCT  
 GCCTTCATCTGTGACTCACTTGTGAATGAAAAACCATAGGCAGTCCCTCAATAGTTTTACTGTTCTG  
 AAAACACTTCTGTCCCTAACGAATCTAACAAAGATTCTTGTTAATAAAGATGTACCTCAGAAAACAGGAGG  
 TGAACCACACCTTCAGTAACTGACTTACTAAATATTTTTGGCTCCAGAGATTCTTACTGGTGATAAC  
 CAATATTATTGTGAAAACGTGCCTCTCTGCAAAATGCTGAGAAAATATGCAAAACACGGAGGAACCTG  
 AATACCTTATTCTTACTCTCTGAGATTTTCATATGATCAGAAGTATCATGTGAGAAGGAAAAATTTAGA  
 CAATGTACTACTGCCACTGGTTTTGGAGTTGCCAGTAAAAGAATTACTTCTTCTTTCATTGTGACGAA  
 AGTTGGTCTGTAGATGTTGACTTCACTGATCTTAGTGAGAACCTTGCTAAAAAATTAAGCCTTCAGGGA  
 CTGATGAAGCTTCTGCACAAAATTTGGTGCCTATCTATTAAGTCCGTTGTGGTTCACCTGGTATATC  
 CTCTGAAAGTGGGCATTACTATTCTTATGCCAGGAATATCACAAGTACAGACTTTCATATCAGATGTAC  
 CACCAGTCTGAGGCTCTGGCATTAGCATCTCCAGAGTCATTTACTAGGGAGAGATAGTCCAGTGCAG  
 TTTTTGAACAGGATTTGGAAAATAAGGAAATGTCAAAGAATGGTTTTTATTTAATGACAGTAGAGTGAC  
 ATTTACTTCAATTCAGTCAGTCCAGAAAATTACGAGCAGGTTTCCAAAGGACACAGCTTATGTGCTTTTG  
 TATAAAAAACAGCATAGTACTAATGGTTTAAAGTGGTAATAACCCAACAGTGGACTCTGGATAAATGGAG  
 ACCCACCTCTACAGAAAGAACTTATGGATGCTATAACAAAAGACAATAAACTATATTTACAGGAACAAGA  
 GTTGAATGCTCGAGCCCGGCCCTCAAGCTGCATCTGCTTCATGTTTTCGGCCCAATGGATTTGAT  
 GACAACGACCCACAGGAAGCTGTGGACCAACTGGTGGAGGGGTGGAGGAGATTTAATACAGTTGGCA  
 GACTCGTATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238994 representing NM\_001290326  
 Red=Cloning site Green=Tags(s)

MNSVIQALFMATDFRRQVLSLNLNGCNSLMKKLQHLFAFLAHTQREAYAPRIFFEASRPPWFTPRSQQDC  
 SEYLRFLLDRLHEEEKILKVQASHKPSEILECSETSLQEVASKAAVL TETPRTSDEKTLIEKMFGGKLR  
 THIRCLNCRSTSQKVEAFDLSLAFCPSSLENMSVQDPASSPSIQDGGLMQASVPGPSEEPVVYNPTTA  
 AFICDSL VNEKTI GSPNEFYCSENTSVPNESNKILVNKDVPQKPGGETTPSVTDLLNYFLAPEILTGDN  
 QYYCENCASLQNAEKTMIITEPEYLIL TLLRFSYDQKYHVRKILDNVSLPLVLELPVKRITSFSSLSE  
 SWSVDVDFDLSENLAKLKPSTDEASCTKLVYLLSSVVVHSGISSESGHYYSYARNITSTDSSYQMY  
 HQSEALALASSQSHLLGRDSPA VFEQDLENKEMSKEWFLFNDSRVFTFSFQSVQKITSRFPKDTAYVLL  
 YKKQHSTNGLSGNNPTSLGWINGDPPLQKELMDAITKDNKLYLQEQLNARARALQAASASC SFRPNGFD  
 DNDPPGSCGPTGGGGGGFNTVGRLVF

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

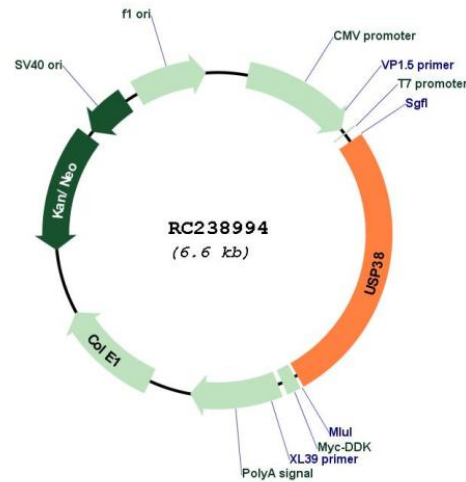
Cloning Scheme:

Cloning sites used for ORF Shuttling:



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

Plasmid Map:



ACCN: NM\_001290326

ORF Size: 1761 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_001290326.1</a> , <a href="#">NP_001277255.1</a>   |
| <b>RefSeq Size:</b>           | 7197 bp   |
| <b>RefSeq ORF:</b>            | 1764 bp   |
| <b>Locus ID:</b>              | 84640   |
| <b>UniProt ID:</b>            | <a href="#">Q8NB14</a>  |
| <b>Cytogenetics:</b>          | 4q31.21   |
| <b>Protein Families:</b>      | Druggable Genome, Protease  |
| <b>MW:</b>                    | 65.6 kDa  |
| <b>Gene Summary:</b>          | Deubiquitinating enzyme exhibiting a preference towards 'Lys-63'-linked ubiquitin chains. [UniProtKB/Swiss-Prot Function]   |