

## Product datasheet for **RG238994**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	USP38 (NM_001290326) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	USP38
Synonyms:	HP43.8KD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG238994 representing NM\_001290326.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAACAGTGTATACAAGCCTTGTTTATGGCCACAGATTTCAGGAGACAAGTATTATCTTTAAATCTA
AATGGGTGCAATTCATTAATGAAAAATTACAGCATCTTTTGCCTTTCTGGCCATACACAGAGGGAA
GCATACGCACCTCGGATATTCTTTGAGGCTTCCAGACCTCCATGGTTACTCCCAGATCACAGCAAGAC
TGTTCTGAATACCTCAGATTTCTCCTTGACAGGCTCCATGAAGAAGAAAAGATCTTGAAAGTTCAGGCC
TCACACAAGCCTTCTGAAATTCTGGAATGCAGTGAAACTTCTTTACAGGAAGTAGCTAGTAAAGCAGCA
GTACTAACAGAGACCCCTCGTACAAGTGACGGTGAGAAGACTTTAATAGAAAAATGTTTGGAGGAAAA
CTACGAACTCACATACGTTGTTTGAAGTGCAGGAGTACCTCACAAAAAGTGAAGCCTTTACAGATCTT
TCGCTTGCCTTTTGCCTTCTCTTCTTTGAAAAATGTCTGTCCAAGATCCAGCATCATACCCAGT
ATACAAGATGGTGTCTAATGCAAGCCTCTGTACCCGGTCTTCAGAAGAACCAGTAGTTTATAATCCA
ACAACAGCTGCCTTCATCTGTGACTCACTTGTGAATGAAAAACCATAGGCAGTCTCTAATGAGTTT
TACTGTTCTGAAAACACTTCTGTCCCTAACGAATCTAACAAAGATTCTTGTTAATAAAGATGTACCTCAG
AAACCAGGAGGTGAAACACACCTTCAGTAACTGACTTACTAAATTATTTTTGGCTCCAGAGATTCTT
ACTGGTGATAACCAATATTATTGTGAAAAGTGCCTCTCTGCAAAATGCTGAGAAAACTATGCAATC
ACGGAGGAACCTGAATACCTTATTCTTACTCTCCTGAGATTTTCATATGATCAGAAGTATCATGTGAGA
AGGAAAATTTTAGACAATGTATCACTGCCACTGGTTTTGGAGTTGCCAGTTAAAAGAATTACTTCTTTC
TCTTCATTGTGAGAAAGTTGGTCTGTAGATGTTGACTTCACTGATCTTAGTGAGAACCTTGCTAAAAA
TAAAGCCTTCAGGACTGATGAAGCTTCTGCACAAAATGGTGCCTATCTATTAAGTCCGTTGTG
GTTCACTCTGGTATATCCTCTGAAAGTGGCATTACTATTCTTATGCCAGGAATATCACAAAGTACAGAC
TCTTCATATCAGATGTACCACAGTCTGAGGCTCTGGCATTAGCATCTCCAGAGTCATTTACTAGGG
AGAGATAGTCCCAGTGCAGTTTTTGAACAGGATTTGAAAAATAAGGAAATGTCAAAAAGATGGTTTTTA
TTAATGACAGTAGAGTGACATTTACTTCACTTTCAGTCCAGAAAATTACGAGCAGGTTTCCAAAG
GACACAGCTTATGTGCTTTTGTATAAAAAACAGCATAGTACTAATGGTTAAGTGGTAATAACCCAACC
AGTGGACTCTGGATAAATGGAGACCCACCTCTACAGAAAGAACTTATGGATGCTATAACAAAAGACAAT
AAACTATATTTACAGGAACAAGAGTTGAATGCTCGAGCCCGGCCCTCCAAGCTGCATCTGCTTCATGT
TCATTTCCGCCAATGGATTTGATGACAACGACCCACCAGGAAGCTGTGGACCAACTGGTGGAGGGGT
GGAGGAGATTTAATACAGTTGGCAGACTCGTATTT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG238994  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MNSVIQALFMATDFRRQVLSLNLNGCNLSMKLQHLFAFLAHTQREAYAPRIFFEASRPWFPTPRSQD
CSEYLRFLLDRLHEEEKILKVQASHKPSEILECSETSLQEVASKAAVLTEPRTSDGKTLIEKMFGGK
LRTHIRCLNCRSTSQKVEAFDLSLAFCPSSLENMSVQDPASSPSIQDGLMQASVPGPSEEPVYVNP
TTAAFICDSLNEKTIQSPPNEFYCSENTSVPNESNKILVNKDVPQKPGGETTPSVTDLLNYFLAPEIL
TGDNQYYCENCASLQNAEKTMQITEPEYLILTLRFSDYQKYHVRKILDVNSLPLVLELPVKRITSF
SSLSESWSVDVDFDLSENLAKKLKPSGTDEASCTKLVYLLSSVVVHSGISSESGHYYSYARNITSD
SSYQMYHQSEALALASSQSHLLGRDPSAVFEQDLENKEMSKWFLFNDSRVFTFSQSVQKITSRFPK
DTAYVLLYKQHSTNGLSGNNPSTGLWINGDPLQKELMDAITKDNKLYLQEQLNARARALQAASAC
SFRPNFGDDNDPPGSCGPTGGGGGGFNTVGRLVF
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001290326

**ORF Size:** 1761 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).

**RefSeq:** [NM\\_001290326.1](#), [NP\\_001277255.1](#)

**RefSeq Size:** 7197 bp

**RefSeq ORF:** 1764 bp

**Locus ID:** 84640

**UniProt ID:** [Q8NB14](#)

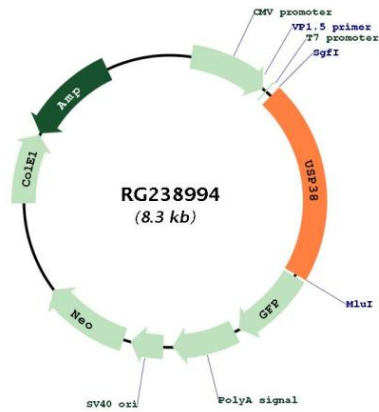
**Cytogenetics:** 4q31.21

**Protein Families:** Druggable Genome, Protease

**MW:** 65.6 kDa

**Gene Summary:** Deubiquitinating enzyme exhibiting a preference towards 'Lys-63'-linked ubiquitin chains. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG238994