

## Product datasheet for **RG219906**

### USP22 (NM\_015276) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	USP22 (NM_015276) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	USP22
Synonyms:	USP3L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG219906 representing NM\_015276  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGTCCCGGCCAGAGCCCGAGGGCGAGGCCATGGACGCCGAGCTGGCGGTAGCGCCCGGGCTGT  
 CGCACCTGGGCGAGCTTCAAGGTGGACAACCTGGAAGCAGAACCTGCGGGCCATCTACCAGTCTTCGTGTG  
 GAGCGGCACGGCTGAGGCCCGCAAGCGCAAGGCCAAGCTCTGTATCTGCCATGTCTGTGGCGTCCACCTC  
 AACAGGCTGCATTCTGCCTCTACTGTGTCTTCTCGGCTGTTTCACAAAGAAGCATATTCACGAGCATG  
 CGAAGGCGAAGCGGCACAACCTGGCCATTGATCTGATGTACGGAGGCATCTACTGTTTTCTGTGCCAGGA  
 CTACATCTATGACAAAGACATGGAATAATCGCCAAGGAGGAGCAGCGAAAAGCTTGAAAATGCAAGGC  
 GTTGGAGAGAAGTTTTCAACTTGGGAACCAACCAACGGGAGCTTGAAGTCTGAAGCACAACCCGAAAA  
 GGAGAAAGATCACCTCGAAGTGCACCATAGGTCTGCGTGGGCTGATCAACCTTGGGAACACATGTTTCAT  
 GAACTGCATCGTCAGGCCCTGACCCACACGCCACTTCTGCGGGACTTCTCCTGTCTGACAGGCACCGC  
 TGTGAGATGCAGAGCCCCAGCTCCTGTCTGGTCTGTGAGATGTCCTCACTGTTTCAGGAGTTTTACTCTG  
 GACACCGTCCCCTCACATCCCCTATAAGTTGCTGCACCTGGTGTGGACCCACGCGAGGCACCTAGCAGG  
 CTACGAGCAGCAGGACGCCACGAGTTCCTCATCGCGGCCCTGGACGTGCTCCACCGACTGCAAAGGT  
 GATGACAAATGGGAAGAAGGCCAACCAACCCCAACCACTGCAACTGCATCATAGACCAGATCTTCACAGGCG  
 GGTTGCAGTCAGACGTCACCTGCCAAGTCTGCCATGGAGTCTCCACCACCATCGACCCCTTCTGGGACAT  
 CAGCTTGGATCTCCCGGCTCTCCACCCATTCTGGCCCTGAGCCAGGGAGCGAGGGCAACGTGGTA  
 AACGGGAAAGCCACGTGTGGGAACCACACGCTCACGGACTGCCTGCGACGATTACACGAGCCAGAGC  
 ACTTGGGCAGCAGCGCCAAGATCAAGTGCAGCGTTGCCATAGCTACCAGGAGTCCACAAAGCAGTCCAC  
 TATGAAGAAACTGCCCATCGTAGCTGTTTTTCATCTCAAACGATTTGAACACTCAGCCAAGCTGCGGCGG  
 AAGATCACACGTATGTGTCTTCCCCTGGAGCTGGACATGACCCCTTTCATGGCTCCAGCAAAGAGA  
 GCAGGATGAATGGACAGTACCAGCAGCCACGGACAGTCTCAACAATGACAAAGTATTCCTGTTTGC  
 TGTGTTAAACATCAAGGGACCTTGGAGAGTGGCCACTACACCAGCTTTATCCGGCAGCACAAGACCAG  
 TGGTTCAAGTGTGACGATGCCATCATCACAAGGCCAGCATCAAGGACGTCCTGGACAGCGAAGGGTACT  
 TGCTGTTCTATCACAACAGTTCCTGGAATACGAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG219906 representing NM\_015276  
 Red=Cloning site Green=Tags(s)

MVSRPEPEGEAMDAELAVAPPGCSHLGSKVDNWKQNLRAIYQCFVWSGTAEARKRKAKSCICHVCGVHL  
 NRLHSCLYCVFFGCFTKKHIHEHAKAKRHNLAIDLMYGGIYCFQCQDYIYDKDMEIIAKEEQRKAWKMQG  
 VGEKFSTWEPTKRELELLKHNPKRRKITSNCTIGLRGLINLGNTCFMNCIVQALHTHTPLLRDFFLSDRHR  
 CEMQSPSSCLVCEMSSLFQEFYSGHRSPHIPYKLLHLVWTHARHLAGYEQQDAHEFLIAALDVLHRHCKG  
 DDNGKKANNPNHCNCIIDQIFTGGLQSDVTCQVCHGVSTTIDPFWDISLDLPGSSTPFWPLSPGSEGNV  
 NGESHSVGTTLTDCLRFRTRPEHLGSSAKIKCSGCHSYQESTKQLTMKKLPIVACFHLKRFHSAKLR  
 KITTYVSFPLEDMTPFMASKE SRMNGYQQPTDSLNNDNKYSLFAVNNHQGTLES GHYTSFIRQHKDQ  
 WFKCDDAIITKASIKDVLVDEGYLLFYHKQFLEYE

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_015276

**ORF Size:** 1575 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

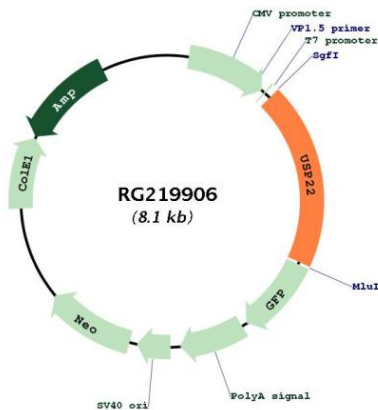
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_015276.2](#)

RefSeq Size:	5220 bp
RefSeq ORF:	1578 bp
Locus ID:	23326
UniProt ID:	<a href="#">Q9UPT9</a>
Cytogenetics:	17p11.2
Protein Families:	Protease
Gene Summary:	Histone deubiquitinating component of the transcription regulatory histone acetylation (HAT) complex SAGA. Catalyzes the deubiquitination of both histones H2A and H2B, thereby acting as a coactivator. Recruited to specific gene promoters by activators such as MYC, where it is required for transcription. Required for nuclear receptor-mediated transactivation and cell cycle progression.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG219906