

Product datasheet for **RG222642**

USP15 (NM_006313) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | USP15 (NM_006313) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | USP15 |
| Synonyms: | UNPH-2; UNPH4 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG222642 representing NM_006313
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGAAGCGCGAGCGCGGATCTGGACACCCAGCGGTCTGACATCGCGACGCTGCTCAAACCTCGC
 TCCGGAAAGGGGACACCTGGTACCTAGTCGATAGTCGCTGGTTCAAACAGTGGAATAAATATGTTGGCTT
 TGACAGTTGGGACAAATACCAGATGGGAGATCAAATGTGTATCCTGGACCCATTGATAACTCTGGACTT
 CTCAAAGATGGTATGCCAGTCACTTAAGGAACATCTTATTGATGAATTGGATTACATACTGTTGCCAA
 CTGAAGGTTGGAATAAATTGTCAGCTGGTACACATTGATGGAAGGTCAAGAGCCAATAGCACGAAAGGT
 GGTTGAACAGGGTATGTTGTAAGCACTGCAAAGTAGAAGTATATCTCACAGAATTGAAGCTATGTGAA
 AATGGAACATGAATAATGTTGTAAGTCAAGATTTAGCAAAGCTGACACAATAGATAACAATTGAAAAGG
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 ATAGAACAGAAAAATGAAGATGGAACATGGCCAAGGGTCTTCTACTCCTAATGTGAAAAACTCAAATT
 ACTGTCTTCCATCATATACCGCTTATAAGAACTATGATTATTCGGAACCTGGAAGAAACAATGAACAGCC
 AGGCCTCTGTGGCCTAAGTAACTTGGGAAATACGTGTTTCATGAACTCAGCTATTCAGTGTTTGAGCAAC
 ACACCTCCACTTACTGAGTATTTCTCAATGATAAGTATCAAGAAGAAGTGAATTTTGACAATCCCTTAG
 GAATGAGAGGTGAAATAGCTAAATCTTATGCCGAAGTCAAGCAAATGTGGTCTGGAAAGTTTAGCTA
 CGTCACCCCAAGAGCCTTAAAGACACAGGTAGGACGTTTTGCACCTCAGTTCTCTGGATATCAGCAGCAA
 GACTGTCAAGAACTGTTAGCTTTCTATTAGATGGATTACATGAGGATTTGAATAGAATTAGGAAAAAC
 CATAATACAATTAAGAGATGCAGATGGAAGGCCAGATAAGGTGGTTGCCGAAGAAGCCTGGGAAAAACCA
 TTTAAAAACGAAATGATTCTATCATAGTAGATATTTTCATGGCCTTTTCAAATCAACTTTAGTTTGTCT
 GAGTGTGCTAAGATTTTCAGTAACATTTGATCCTTTTTGTTACTTGACACTTCCATTGCCCATGAAAAAG
 AACGCACCTTGGAAAGTTACTTAGTTAGAAATGGATCCGCTTACCAAACCTATGCAGTACAAAGTGGTTGT
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 ATGATAGTTACTGATATACAATCATAGATTTACAGAATATTCGCTATGGATGAAAACCTTAGTAGTA
 TTATGGAACGGGATGATATTTATGTGTTGAAATTAACATCAATAGGACAGAAGATACAGAGCACGTGAT
 TATTCCTGTTTGCCTAAGAGAAAAATTCAGACACTCGAGTTATACCCACCATACTGGTTCTTCACTTTTT
 GGTGAGCCCTTTCTTATGGCTGTACCACGAAACAATACTGAAGACAACTTTATAATCTCCTGCTCTTGA
 GAATGTGCCGATATGTCAAATATCTACTGAAACTGAAGAACTGAAGGATCCCTACACTGCTGTAAAGGA
 CAAAAATTAATGGGAATGGCCAAATGGCATACATGAAGAAGGCTCACCAAGTGAAATGGAAACAGAT
 GAGCCAGATGATGAATCCAGCCAGGATCAAGAACTTCCCTCAGAGAATGAAAACAGTCAGTCTGAAGATT
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 AAGCTAGGTGCTGAAGATCCCTGGTATTGTCGAATTGTAAGAACATCAGCAAGCCACAAGAAATGG
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 CAAGTTGGATACCTTAGTTGATTTTCTATCAATGACTTGGATATGTCGGAATCTTAATTAATCCAAAT
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 CTGCTTTTGCAAAAAATAAGATGATGGAAAATGGTACTATTTTGTGACAGTAGTGTCTCCACTGCATC
 TGAAGACCAAATGTGTCAAAGCAGCATATGACTCTTCTACCAGAGACAAGACACTTTCAGTGGAACT
 GGCTTTTTCTCTTACCGAGAACTAAAGGTGCTTCAGCTGCCACTGGCATCCCATAGAAAAGTGATG
 AAGATAGCAATGATAATGACAATGATATAGAAAATGAAAAGTGTATGCACACTAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG222642 representing NM_006313
 Red=Cloning site Green=Tags(s)

MAEGGAADLDTQRSDIATLLKTSLSLRKGDWTWYLVDSRWFQWKYVGFDSWDKYQMGDQNVYGPIDNSGL
 LKDGDAQSLKEHLIDELDYILLPTEGWNKLVSWYTLMEGQEPiARKVVEQGMFVKHCKVEVYLTELKLC
 NGNMNNVVTRRFKADTIDTIEKEIRKIFSIPEDEKETRLWNKYMSNTFEPLNKPSTIQDAGLYQGQVLSV
 IEQKNEDGTWPRGPSTPNVKNNSNYCLPSYAYKNYDYSEPRNNEQPGLCGLSNLGNTECFMNSAIQCLSN
 TPPLTEYFLNDKYQEELNFDNPLGMRGEIAKSYAELIKQMWSGKFSYVTPRAFKTQVGRFAPQFSGYQQQ
 DCQELLAFLLDGLHEDLNRIRKKPYIQLKDADGRPKVVAEEAWENHLKRNSIIVDIFHGLFKSTLVCP
 ECAKISVTFDPFCYLLPLPMKKERTLEVYLVRMDPLTKPMQYKVVVVKIGNILDCTALSALSGIPADK
 MIVTDIYNHRFHRIFAMDENLSSIMERDDIYVFEININRTEDTEHVIIPVCLREKFRHSSYTHHTGSSLF
 GQPFLMAVPRNNTEDKLYNLLLRLMCRYVKISTETEETEGSLHCKDQNINGNPNGIHEEGSPSEMETD
 EPDDESSQDQELPSENENSQSEDSVGGDNDSENGLCTEDTCKGQLTGHKRLLFTFQFNNLGNTDINYIKD
 DTRHIRFDDRQLRLDERSFLALDWDPLKKRYFDENAAEDFEKHESVEYKPPKPFVKLKDCEIELFTTKE
 KLGAEWPWYCPNCKEHQQAATKLDLWSPVVLVHVKRFSYSRYMRDKLDTLVDFPINDLDMSEFLINPN
 AGPCRYNLIIVSNHYGGMGGGHYTAFANKDDGKWWYFDSSSVSTASEDQIVSKAAYVLFYQRQDTFSGT
 GFFPLDRETKGASAATGIPLESDSDNDNDNDIENENCMHTN

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_006313

ORF Size: 2856 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 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_006313.1](#), [NP_006304.1](#)

RefSeq Size: 4611 bp

RefSeq ORF: 2859 bp

Locus ID: 9958

UniProt ID: [Q9Y4E8](#)

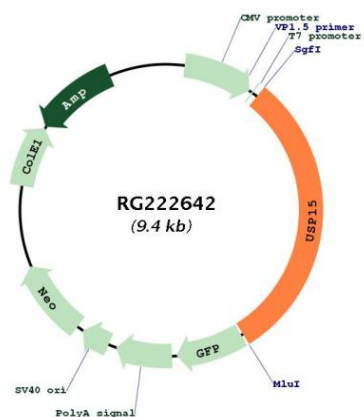
Cytogenetics: 12q14.1

Domains: UCH, DUSP

Protein Families: Druggable Genome, Protease

Gene Summary: This gene encodes a member of the ubiquitin specific protease (USP) family of deubiquitinating enzymes. USP enzymes play critical roles in ubiquitin-dependent processes through polyubiquitin chain disassembly and hydrolysis of ubiquitin-substrate bonds. The encoded protein associates with the COP9 signalosome, and also plays a role in transforming growth factor beta signalling through deubiquitination of receptor-activated SMAD transcription factors. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 2. [provided by RefSeq, Nov 2011]

Product images:



Circular map for RG222642