

## Product datasheet for **RG209755**

### USP25 (NM\_013396) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	USP25 (NM_013396) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	USP25
Synonyms:	USP21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209755 representing NM_013396 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCGTGGAGCAGAACGTGCTGCAGCAGAGCGCGGCCGAGAAGCACCAGCAGACGTTTTTGAATCAAC  
TGAGAGAAATTACGGGGATTAATGACACCCAGATACTACAGCAAGCCTTGAAGGATAGTAATGGAACTT  
GGAATTAGCAGTGGCTTTCCTTACTGCGAAGAATGCTAAGACCCCTCAGCAGGAGGAGACAACCTTACTAC  
CAAACAGCACTTCTGGCAATGATAGATACATCAGTGTGGGAAGCCAAGCAGATACAAATGTGATTGATC  
TCACTGGAGATGATAAAGATGATCTTCAGAGAGCAATTGCCTTGAGTTTGCCGAATCAAACAGGGCATT  
CAGGGAGACTGGAATAACTGATGAGGAACAAGCCATTAGCAGAGTTCCTGAAGCCAGCATAGCAGAGAAT  
AAAGCATGTTTGAAGAGGACACCTACAGAAGTTTGGAGGGATTCTCGAAACCCCTTATGATAGAAAAAGAC  
AGGACAAAGCTCCCGTTGGGCTAAAGAATGTTGGCAATACTTGTGGTTTGTGTTTGTGTTTATTCAGTCATT  
ATTTAATCTTTTGAATTTAGAAGATTAGTTCTGAATTACAAGCCTCCATCAAATGTCTCAAGATTTACCC  
CGAAACCAAAAGGAACATCGGAATTTGCCTTTTATGCGTGAGCTGAGGTATCTATTTGCACCTTCTTGTG  
GTACAAAAGGAAGTATGTTGATCCATCAAGAGCAGTTGAAATCTTAAGGATGCTTTCAAATCAAATGA  
CTCACAGCAGCAAGATGTGAGTGAGTTTACACACAATTTATTAGATTGGTTAGAAGATGCCTTCCAATG  
AAAGCTGAAGAGGAGACGGATGAAGAGAAGCCAAGAACCCTGATGAGTTGTTCTATGGCAGATTCC  
TGCTGTGGGAGTACTTGAAGGTAATAAATTTGAAAACACTGAAATGTTTGGTCACTACCCACTCAGGT  
CAATGGTTCAAAGATCTGCATGAGTGCCTAGAAGCTGCAATGATTGAAGGAGAAATGAGTCTTTACAT  
TCAGAGAATTCAGGAAAATCAGGCCAAGAGCATTGGTTTACTGAATTACCACCTGTGTTAACATTTGAAT  
TGTCAAGATTTGAATTTAATCAGGCATTGGGAAGACCAGAAAAAATTCACAACAAATTAGAATTTCCCA  
AGTTTTATATTTGGACAGATACATGCACAGAAACAGAGAATAACAAGAATTAAGAGGGAAGAGATCAAG  
AGACTGAAAGATTACCTCAGGTATTACAACAAAGGCTAGAAAGATATTTAAGCTATGGTTCCGGTCCCA  
AACGATTTCCCTTGGTAGATGTTCTTCAGTATGCATTGGAATTTGCCTCAAGTAAACCTGTTTGCACCTC  
TCCTGTTGACGATATTGACGCTAGTTCCACCTAGTGGTTCCATACCATCACAGACATTACCAAGCACA



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ACAGAACAACAGGGAGCCCTATCTTCAGAACTGCCAAGCACATCACCTTCATCAGTTGCTGCCATTTTCAT  
 CGAGATCAGTAATACACAAACCATTTACTCAGTCCCGGATACCTCCAGATTTGCCATGCATCCGGCACC  
 AAGGCACATAACGGAGGAAGAACCTTTCTGTGCTGGAAAGTTGTTTACATCGCTGGAGGACAGAAATAGAA  
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 AATCTATGATACAAGTTCCTTATCGATTACATGCCGTTTTAGTTCACGAAGGCCAAGCTAATGCTGGGCA  
 CTACTGGGCATATATTTTGGATCATCGTGAAGCAGATGGATGAAGTACAATGATATTGCTGTGACAAAA  
 TCATCATGGGAAGAGCTAGTGAGGGACTCTTTTGGTGGTTATAGAAATGCCAGTGCATACCTGTTTAAATG  
 ACATAAATGATAAGGCACAGTTCCTAATAACAAGAGGAGTTAATAAAGAAACTGGGCAGCCCTTGTGG  
 TATAGAAACATTACCACCGGATTTGAGAGATTTTGTGAGGAAGACAACCAACGATTTGAAAAAGAACTA  
 GAAGAATGGGATGCACAACCTGCCAGAAAGCTTTGCAGGAAAAGCTTTTAGCGTCTCAGAAATTGAGAG  
 AGTCAGAGACTTCTGTGACAACAGCACAAGCAGCAGGAGACCCAGAATATCTAGAGCAGCCATCAAGAAG  
 TGATTTCTCAAAGCACTTGAAAGAAGAACTATTCAAATAATTACCAAGGCATCACATGAGCATGAAGAT  
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 ATGAGGAGTGGCATCAGGATTATAGGAAATTCAGGGAACAACACTATGTATCTCATAAATTGGGCTAGAAAA  
 TTTTCAAAGAGAAAGTTATATAGATTCCTGTGTTTCTCATCTGTGCTTATCAGAAATAACAAAGAACTC  
 TTGTCTAAAGGCTTATACAGAGGACATGATGAAGAATTGATATCACATTATAGAAGAGAATGTTTGTCTAA  
 AATTAATGAGCAAGCCGAGAACTCTTCGAATCTGGAGAGGATCGAGAAGTAAACAATGGTTTGATTAT  
 CATGAATGAGTTTATTGTCCATTTTGGCATTATTACTGGTGGATGAAATGGAAGAAAAGGATATACTA  
 GCTGTAGAAGATATGAGAAATCGATGGTGTCTACCTTGGTCAAGAAATGGAACACACCTCCAAGAAA  
 AGCTGACAGATTTTTGCCAAAACCTGCTGATTGTTCTATGGAGATTAAGTTTCCATGAGCCACCGAA  
 GTTACCTTCATATCCACGCATGAACCTGTGAGCGATTTGCCCGAATCATGTTGTCCTCAGTCGAACT  
 CCTGCTGATGGAAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG209755 representing NM\_013396

Red=Cloning site Green=Tags(s)

MTVEQNVLQQSAAQKHQQTFLNQLREITGINDTQILQQALKDSNGNLELAVAFLLAKNAKTPQQEETTY  
 QTALPGNDRIYSVGSQADTNVIDLTGDDKDDLQRAIALSLAESNRAFRETGITDEEQAISRVLEASIAEN  
 KACLKRTPTVWRDSRNPYDRKRQDKAPVGLKNVGNWCWFSAVIQSLFNLLFRRLVLNYKPPSNAQDLP  
 RNQKEHRNLPFMRELYLRFALLVGTKRKYVDPRAVEILKDAFKSNDSSQQQDVSEFTHKLLDWLEDAFQM  
 KAEFEETDEEKPKNPMVELFYGRFLAVGVLEGGKFENTEMFGQYPLQVNGFKDLHECLEAAMIEGEIESLH  
 SENSQSGQEHWFTELPVLT FELSRFEFNQALGRPEKIHNKLEFPQVLYLDRYMHRNREITRIKREEIK  
 RLKDYLTVLQQLRLERYLSYSGGPKRFPLVDVLYALEFASKPVCTSPVDDIDASSPPSGSIPSQTLPTST  
 TEQQGALSSELPTSPSSVAAISSRSVIHKPFTQSRIPDLPMPHAPRHITTEELSVLESCLHRWRTEIE  
 NDTRDLQESISRIHRTIELMYSKSMIQVYRHLHVLVHEGQANAGHYWAYIFDHRESRWMKYNDIAVTK  
 SSWEELVRDSFGGYRNASAYCLMYINDKAQFLIQEEFNKETGQPLVGIETLPPDLRDFVEEDNQRFKEL  
 EEWDAQLAQKALQEKLLASQKLRESESVTTAQAAGDPEYLEQPSRSDFSKHLKEETIQIITKASHEHD  
 KSPETVLQSAIKLEYARLVKLAQEDTPPETDYRLHHVVVYFIQNQAPKKIEKTLLEQFGDRNLSFDERC  
 HNIMKVAQAKLEMIPKEEVNLEEYEEWHQDYRKFRETMYLIIGLENFQRESYIDSLFLICAYQNNKEL  
 LSKGLYRGHDEELISHYRRECLLKLNEQAAELFESGEDREVNGLIIMNEFIVPFLPLLVDMEEEKDIL  
 AVEDMRNRWCSYLGQEMEPHLQEKLTDFLPKLLDCSMEIKSFHEPPKLPYSTHELCERFARIMLSLRSRT  
 PADGR

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_013396

**ORF Size:** 3165 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\\_013396.6](#)

**RefSeq Size:** 4968 bp

**RefSeq ORF:** 3168 bp

**Locus ID:** 29761

UniProt ID: [Q9UHP3](#)

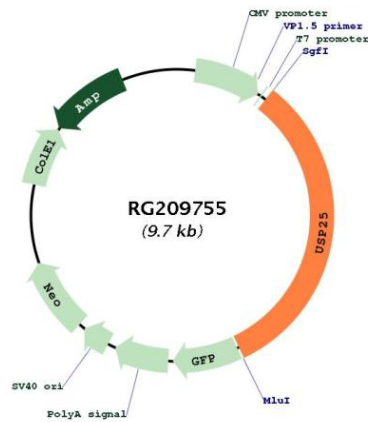
Cytogenetics: 21q21.1

Domains: UCH, UIM

Protein Families: Protease

Gene Summary: Ubiquitin (MIM 191339) is a highly conserved 76-amino acid protein involved in regulation of intracellular protein breakdown, cell cycle regulation, and stress response. Ubiquitin is released from degraded proteins by disassembly of the polyubiquitin chains, which is mediated by ubiquitin-specific proteases (USPs), such as USP25 (Valero et al., 1999 [PubMed 10644437]).[supplied by OMIM, Mar 2008]

### Product images:



Circular map for RG209755