

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
GGAATTAGCAGTGGCTTTCCTTACTGCGAAGAATGCTAAGACCCCTCAGCAGGAGGAGACAACCTACTAC
CAAACAGCACTTCTGGCAATGATAGATACATCAGTGTGGGAAGCCAAGCAGATACAAATGTGATTGATC
TCACTGGAGATGATAAAGATGATCTTCAGAGAGCAATTGCCTTGAGTTTGCCGAATCAAACAGGGCATT
CAGGGAGACTGGAATAACTGATGAGGAACAAGCCATTAGCAGAGTTCTTGAAGCCAGCATAGCAGAGAAT
AAAGCATGTTTGAAGAGGACACCTACAGAAGTTTGGAGGGATTCTCGAAACCCCTTATGATAGAAAAAGAC
AGGACAAAGCTCCCGTTGGGCTAAAGAATGTTGGCAATACTTGTGGTTTGTGTTTGTGTTTATTCAGTCATT
ATTTAATCTTTTGAATTTAGAAGATTAGTTCTGAATTACAAGCCTCCATCAAATGCTCAAGATTTACCC
CGAAACAAAAGGAACATCGGAATTTGCCTTTTATGCGTGAGCTGAGGTATCTATTTGCACCTTCTTGTG
GTACAAAAGGAAGTATGTTGATCCATCAAGAGCAGTTGAAATCTTAAGGATGCTTTCAAATCAAATGA
CTCACAGCAGCAAGATGTGAGTGAGTTTACACACAATTTATTAGATTGGTTAGAAGATGCCTTCCAATG
AAAGCTGAAGAGGAGACGGATGAAGAGAAGCCAAGAACCCTGATGAGTTGTTCTATGGCAGATTCC
TGGCTGTGGGAGTACTTGAAGGTAATAAATTTGAAAACACTGAAATGTTTGGTCACTACCCACTCAGGT
CAATGGTTCAAAGATCTGCATGAGTGCCTAGAAGCTGCAATGATTGAAGGAGAAATGAGTCTTTACAT
TCAGAGAATTCAGGAAAATCAGGCCAAGAGCATTGGTTTACTGAATTACCACCTGTGTTAACATTTGAAT
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AACGATTTCCCTTGGTAGATGTTCTTCAGTATGCATTGGAATTTGCCTCAAGTAAACCTGTTTGCACCTC
TCCTGTTGACGATATTGACGCTAGTTCCACCTAGTGGTTCCATACCATCACAGACATTACCAAGCACA



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ACAGAACAACAGGGAGCCCTATCTTCAGAACTGCCAAGCACATCACCTTCATCAGTTGCTGCCATTTTCAT
 CGAGATCAGTAATACACAAACCATTTACTCAGTCCCGGATACCTCCAGATTTGCCATGCATCCGGCACC
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 TTGTCTAAAGGCTTATACAGAGGACATGATGAAGAATTGATATCACATTATAGAAGAGAATGTTTGCTAA
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 AGCTGACAGATTTTTGCCAAAACCTGCTTATTGTTCTATGGAGATTAAGTTTCCATGAGCCACCGAA
 GTTACCTTCATATCCACGCATGAACCTGTGAGCGATTTGCCCGAATCATGTTGTCCTCAGTCGAACT
 CCTGCTGATGGAAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG209755 representing NM_013396
 Red=Cloning site Green=Tags(s)

MTVEQNVLQQSAAQKHQQTFLNQLREITGINDTQILQQALKDSNGNLELAVAFLLAKNAKTPQEEETTY
 QTALPGNDRIYSVGSQADTNVIDLTGDDKDDLQRAIALSLAESNRAFRETGITDEEQAISRVLEASIAEN
 KACLKRTPTVEWRDRSNPYDRKRQDKAPVGLKNVGNWCWFSAVIQSLFNLLFRRLVLNYKPPSNAQDLP
 RNQKEHRNLPFMRELYLRFALLVGTKRKYVDPRAVEILKDAFKSNDSSQQQDVSEFTHKLLDWLEDAFQM
 KAEETDEEKPKNPMVELFYGRFLAVGVLEGGKFENTEMFGQYPLQVNGFKDLHECLEAAMIEGEIESLH
 SENSQSGQEHWFTELPVLT FELSRFEFNQALGRPEKIHNKLEFPQVLYLDRYMHRNREITRIKREEIK
 RLKDYLTVLQQLRLERYLSYSGGPKRFPLVDVLQYALEFASKPVCTSPVDDIDASSPPSGSIPSQTLPT
 TEQQGALSSELPTSPSSVAAISSRSVIHKPFTQSRIPDLPMPAPRHITTEELSVLESCLHRWRTEIE
 NDTRDLQESISRIHRTIELMYSKSMIQVYRHLAVLVHEGQANAGHYWAYIFDHRESRWKMYNDIAVTK
 SSWEELVRDSFGGYRNASAYCLMYINDKAQFLIQEEFNKETGQPLVGIETLPPDLRDFVEEDNQRFKEL
 EEWDAQLAQKALQEKLLASQKLRESESVTTAQAAGDPEYLEQPSRSDFSKHLKEETIQIITKASHEHD
 KSPETVLQSAIKLEYARLVKLAQEDTPPETDYRLHHVVVYFIQNQAPKKIIEKTLLEQFGDRNLSFDERC
 HNIMKVAQAKLEMIKPEEVNLEEYEEWHQDYRKFRETMYLIIGLENFQRESYIDSLFLICAYQNNKEL
 LSKGLYRGHDEELISHYRRECLLKLNEQAELFESGEDREVNGLIIMNEFIVPFLPLLVDMEEEKDIL
 AVEDMRNRWCSYLGQEMEPHLQEKLTDFLPKLLDCSMEIKSFHEPPKLPYSTHELCERFARIMLSLRSRT
 PADGR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

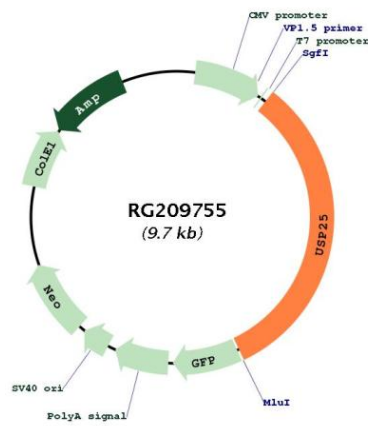

- ACCN:** NM_013396
- ORF Size:** 3165 bp
- OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each 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.
- Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
- 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