

## Product datasheet for **RG239955**

### USP25 (NM\_001283042) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	USP25 (NM_001283042) 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:	>RG239955 representing NM_001283042. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACCGTGGAGCAGAACGTGCTGCAGCAGAGCGCGCGCAGAAGCACCAGCAGACGTTTTTGAATCAA
CTGAGAGAAAATTACGGGGATTAATGACACCCAGATACTACAGCAAGCCTTGAAGGATAGTAATGGAAC
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TACCAAACAGCACTTCTGGCAATGATAGATACATCAGTGTGGGAAGCCAAGCAGATACAAATGTGATT
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GAGAATAAAGCATGTTTGAAGAGGACACCTACAGAAGTTTGGAGGGATTCTCGAAACCCCTTATGATAGA
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CAGTCATTATTTAATCTTTTGGAAATTTAGAAGATTAGTTCTGAATTACAAGCCTCCATCAAATGCTCAA
GATTTACCCCGAAACCAAAGGAACATCGGAATTTGCCTTTATGCGTGAGCTGAGGTATCTATTTGCA
CTTCTTGTGGTACAAAAGGAAGTATGTTGATCCATCAAGAGCAGTTGAAATTCCTAAGGATGCTTTC
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TCACAGACATTACCAAGCACAACAGAACAACAGGGAGCCCTATCTTCAGAACTGCCAAGCACATCACCT
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TCATCAGTTGCTGCCATTTTCATCGAGATCAGTAATACACAAACCATTTACTCAGTCCCGGATACCTCCA  
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 CACGAAGGCCAAGCTAATGCTGGGCACTACTGGGCATATATTTTTGATCATCGTGAAGCAGATGGATG  
 AAGTACAATGATATTGCTGTGACAAAATCATCATGGGAAGAGCTAGTGAGGGACTCTTTTGGTGGTTAT  
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 AAGCTGACAGATTTTTTGCAAAACCTTGATTGTTCTATGGAGATTAAGTTTCCATGAGCCACCG  
 AAGTTACCTTCATATTCCACGCATGAACCTGTGAGCGATTTGCCCGAATCATGTTGTCCCTCAGTCGA  
 ACTCCTGCTGATGGAAGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC

**Protein Sequence:**

>Peptide sequence encoded by RG239955  
 Blue=ORF Red=Cloning site Green=Tag(s)

MTVEQNVLQSSAAQKHQQTFLNQLREITGINDTQILQQALKDSNGNLELAVAFLLAKNAKTPQEEETTY  
 YQTALPGNDRIYSVGSQADTNVIDLTDGDKDDLQRAIALSLAESNRAFRETGITDEEQAIISRVLASIA  
 ENKACLKRTPTVWRDSRNPYDRKRQDKAPVGLKNVGNFCWFSAVIQSLFNLLFRRLVLNYKPPSNAQ  
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 KREEIKRLKDYLVTLQQRLERYLSYSGPKRFPLVDVLQYALEFASSKPVCTSPVDDIDASSPPSGSIP  
 SQTLPSTTEQQGALSSELPSTSPSSVAATSSRSVIHKPFQSRIPDLPMPAPRHITTEELSVLESCL  
 HRWRTEIENDTRDLQESI SRIHRTIELMYSDKSMI QVPYRLHAVLVHEGQANAGHYWAYIFDHRESRWM  
 KYNDIAVTKSSWEELVRDSFGGYRNASAYCLMYINDKAQFLIQEEFNKETGQPLVGIETLPPDLRDFVE  
 EDNQRFEKELEEWDAQLAQKALQEKLLASQKLRESESVTTAAAGDPEYLEQPSRSDFSKHLKEETIQ  
 IITKASHEHEDKSPETVLSIMMTPNMQGI IMAIGKRSVYDRCGPEAGFFKAIKLEYARLVKLAQEDT  
 PPETDYRLHHVVVYFIQNQAPKKIIEKTLLEQFGDRNLSFDERCHNIMKVAQAKLEMIKPEEVNLEEYE  
 EWHQDYRKFRRETTMYLIIGLENFQRESYIDSLFLICAYQNNKELLSKGLYRGHDEELISHYRRECLLK  
 LNEQAELFESGEDREVNGLIIMNEFIVPFLPLLLVDEMEEKDILAVEDMRNRWCSYLGQEMEPHLQE  
 KLTDFLPKLLDSCMEIKSFHEPKLPSYSTHEL CERFARIMLSL SRTPADGR

TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSTRTRFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERY

**Restriction Sites:**

Sgfl-MluI

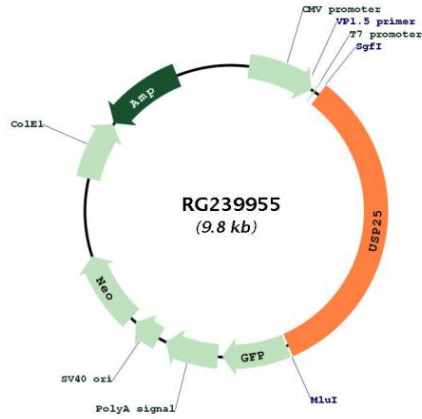
**Cloning Scheme:**


<b>ACCN:</b>	NM_001283042
<b>ORF Size:</b>	3261 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001283042.3</a>
<b>RefSeq Size:</b>	5245 bp
<b>RefSeq ORF:</b>	3264 bp
<b>Locus ID:</b>	29761
<b>UniProt ID:</b>	<a href="#">Q9UHP3</a>
<b>Cytogenetics:</b>	21q21.1
<b>Protein Families:</b>	Protease
<b>MW:</b>	126.2 kDa

**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 RG239955