

## Product datasheet for **RG200337**

### USP14 (NM\_005151) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	USP14 (NM_005151) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	USP14
Synonyms:	TGT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG200337 representing NM\_005151  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCGCTCTACTCCGTTACTGTAAATGGGAAAGGAGAAATTTGAAGGTGTAGAATTGAATACAGATG  
 AACCTCCAATGGTATTCAAGGCTCAGCTGTTTGGGTTGACTGGAGTCCAGCCTGCCAGACAGAAAGTTAT  
 GGTGAAAGGAGGAACGCTAAAGGATGATGATTGGGAAACATCAAAATAAAAAATGGAATGACTCTACTA  
 ATGATGGGGTCAAGCAGATGCTCTCCAGAAGAACCCTCAGCCAAAAGTCTTCGTAGAAGACATGACAG  
 AAGAACAGTTAGCATCTGCTATGGAGTTACCATGTGGATTGACAAACCTTGGTAACACTTGTACATGAA  
 TGCCACAGTTCAGTGTATTCGTTCTGTGCCTGAACTCAAAGATGCCCTTAAAAGGTATGCAGGTGCCTTG  
 AGAGCTTCAGGGGAAATGGCTTCAGCGCAGTATATTACTGCAGCCCTTAGAGATTTGTTTGATTCCATGG  
 ATAAAACCTCTCCAGTATCCACCTATTATTCTACTGCAGTTTTTGCACATGGCTTTCCACAGTTTGC  
 CGAAGAAAGGTGAACAAGGACAGTATCTCAACAGGATGCTAATGAATGTTGGATACAAATGATGCGAGTA  
 TTGCAACAGAAATTTGAAAGCAATAGAGGATGATTCTGTTAAAGAGACAGACTCCTCATCTGCATCGGCAG  
 CGACACCTTCTAAAAAGAAAAGTTAATCGATCAGTTCCTCGGTGTTGAGTTGAAACTACCATGAAATG  
 TACAGAATCTGAAGAAGAAGAGTACCACAAAGGAAAGGAAAATCAACTTCAGCTTAGCTGTTTTATCAAT  
 CAGGAAGTCAAGTATCTTTTACAGGACTTAAATTGCGACTTCAGGAAGAAAATCACCAACAGTCTCCAA  
 CGTTGCAAAGAAATGCCTTGTATATCAAATCTTCAAGATCAGCCGGCTGCCTGCTTACTTGACCATTCA  
 GATGGTTTCGATTTTTTATAAGAGAAGGAATCTGTGAATGCCAAAGTCTTAAGGATGTTAAATTTCT  
 CTTATGTTGGATATGTGAAGTGTGTACACCAGAAGTCAAGAGAAAATGGTGTCTTTTCGATCCAAAT  
 TCAAGGATCTAGAAGATAAAAAAGTGAATCAGCAGCCAAATACAAGTGACAAAAAGAGTATGTCACAGAA  
 AGAAGTTAAGTATGAACCTTTTCTTTTCTGCTGATGATATTGGCTCCAATAATTGGGATACATGACTTA  
 CAAGCAGTACTAACACACCAGGGAAGGTCTAGTTCCTCAGGTCATTATGTATCATGGGTGAAAAGGAAAC  
 AAGATGAATGGATTAAGTTTGTATGATGACAAAGTCAAGTACGATCGTAACACCAGAAAGATATCTTACGGCTTTC  
 TGGTGGTGGAGACTGGCATATCGCTTACTCTATGGGCCTCGCAGAGTTGAAATAATGGAAGAG  
 GAAAGTGAACAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG200337 representing NM\_005151  
 Red=Cloning site Green=Tags(s)

MPLYSVTVKWKKEKFEQVELNTDEPPMVFKALFALTVGQPARQKVMVKGGLKDDDWGNIKIKNGMTLL  
 MMGSADALPEEPSAKTVFVEDMTEEQLASAMELPCGLTNLGNTCYMNATVQCIRSVPELKDALKRYAGAL  
 RASGEMASQYITAALRDLFDSMDKTSSSIPPIILLQFLHMAFPQFAEKGEQGQYLQQDANECWIQMMRV  
 LQQKLEAIEDDSVKETDSSSASAATPSKKKSLIDQFFGVEFETTMKCTESEEEVTKGKENQLQLSCFIN  
 QEVKYLFTGLKLRLQEEITKQSPTLQRNALYIKSSKISRLPAYLTIQMVRFYKEKESVNAKVLKDVKFP  
 LMLDMYELCTPELQEKMVSFRSKFKDLEDKKNVQPNSTDKKSSPQKEVKYEPFSFADDIGSNCCGYDDL  
 QAVLTHQGRSSSSGHVYSWVKRKQDEWIKFDDDKVSIPTPEDILRLSGGGDWHIAYVLLYGP RRVEIMEE  
 ESEQ

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_005151

**ORF Size:** 1482 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\\_005151.4](#)

**RefSeq Size:** 4156 bp

**RefSeq ORF:** 1485 bp

**Locus ID:** 9097

**UniProt ID:** [P54578](#)

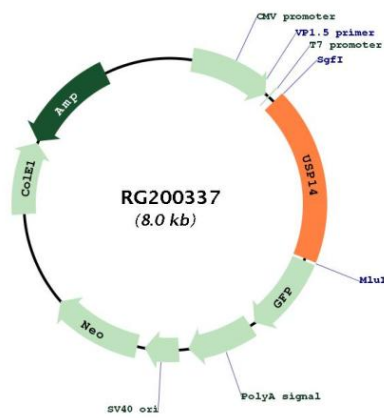
**Cytogenetics:** 18p11.32

**Domains:** UBQ, UCH

**Protein Families:** Druggable Genome, Protease

**Gene Summary:** This gene encodes a member of the ubiquitin-specific processing (UBP) family of proteases that is a deubiquitinating enzyme (DUB) with His and Cys domains. This protein is located in the cytoplasm and cleaves the ubiquitin moiety from ubiquitin-fused precursors and ubiquitylated proteins. Mice with a mutation that results in reduced expression of the ortholog of this protein are retarded for growth, develop severe tremors by 2 to 3 weeks of age followed by hindlimb paralysis and death by 6 to 10 weeks of age. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG200337