

## Product datasheet for **RG218264**

### USP14 (NM\_001037334) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	USP14 (NM_001037334) 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:**

>RG218264 representing NM\_001037334  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCGCTCTACTCCGTTACTGTAAATGGGAAAGGAGAAATTTGAAGGTGTAGAATTGAATACAGATG  
 AACCTCCAATGGTATTCAAGGCTCAGCTGTTTGGGTTGACTGGAGTCCAGCCTGCCAGACAGAAAGTTAT  
 GGTGAAAGGAGGAACGCTAAAGGATGATGATTGGGAAACATCAAATAAAAAATATGGAGTTACCATGT  
 GGATTGACAAACCTTGGTAACACTTGTACATGAATGCCACAGTTCAGTGTATTGCTTCTGTGCCTGAAC  
 TCAAAGATGCCCTTAAAAGGTATGCAGGTGCCTTGAGAGCTTCAGGGGAAATGGCTTCAGCGCAGTATAT  
 TACTGCAGCCCTTAGAGATTTGTTTATTCCATGGATAAACTTCTTCCAGTATTCCACCTATTATTCTA  
 CTGCAGTTTTTGCACATGGCTTTCCACAGTTTGGCGAGAAAGGTGAACAAGGACAGTATCTTCAACAGG  
 ATGCTAATGAATGTTGGATACAAATGATGCGAGTATTGCAACAGAAATTGGAAGCAATAGAGGATGATTC  
 TGTTAAAGAGACAGACTCCTCATCTGCATCGGCAGCGACACCTTCTAAAAAGAAAAGTTTAAATCGATCAG  
 TTCTTCGGTGTTGAGTTTGAAGACTACCATGAAATGTACAGAATCTGAAGAAGAAGAAGTACCAAAGGAA  
 AGGAAAATCAACTTCAGCTTAGCTGTTTTATCAATCAGGAAGTCAAGTATCTTTTACAGGACTTAAATT  
 GCGACTTCAGGAAGAAATCACCAAACAGTCTCCAACGTTGCAAAGAAATGCCCTGTATATCAAATCTTCC  
 AAGATCAGCCGGCTGCCTGCTTACTTGACCATTAGATGGTTCGATTTTTTTATAAAGAGAAGGAATCTG  
 TGAATGCCAAAGTTCTTAAGGATGTTAAATTTCTCTTATGTTGGATATGTATGAACTGTGTACACCAGA  
 ACTTCAAGAGAAAATGGTGTCTTTTCGATCCAAATCAAGGATCTAGAAGATAAAAAAGTGAATCAGCAG  
 CCAAATAACAAGTGACAAAAGAGTAGTCCCAGAAAGAAGTTAAGTATGAACCTTTTCTTTTGTGATG  
 ATATTGGCTCCAATAATTGTGGACTACTGACTTACAAGCAGTACTAACACACCAGGGAAGTCTAGTTC  
 TTCAGGTCAATTATGTATCATGGGTGAAAAGGAAACAAGATGAATGGATTAAAGTTTGTATGACAAAGTC  
 AGCATCGTAACACCAGAAGATATCTTACGGCTTCTGGTGGTGGAGACTGGCATATCGCTTACGTTCTAC  
 TCTATGGGCTCGCAGAGTTGAAATAATGGAAGAGGAAAGTGAACAG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG218264 representing NM\_001037334  
 Red=Cloning site Green=Tags(s)

MPLYSVTVKWKEKEFEGVELNTDEPPMVFKALFALTGVQPARQKVMVKGGLKDDDWGNKIKNMELPC  
 GLTNLGNTCYMNATVQCIRSVPELKDALKRYAGALRASGEMASAQYITAALRDLFDSMDKTSSSIPPIIL  
 LQFLHMAFPQFAEKGEQQYLQDANECWIQMMRVLQKLEAIEDDSVKETDSSSASAATPSKKKSLIDQ  
 FFGVEFETTMKCTESEEEEEVTGKQENQLQLSCFINQEVKYLFTGLKRLQEEITKQSPTLQRNALYIKSS  
 KISRPLPAYLTIQMVRFYKEKESVNAKVLKDVKFPLMLDMYELCTPELQEKMVSFRSKFKDLEDKKNVQQ  
 PNTSDKKSSPQKEVKYEPFSFADDIGSNCGYYDLQAVLTHQGRSSSSGHYVSWVKKQDEWIKFDDDKV  
 SIVTPEDILRLSGGDWHIAYVLLYGPRRVEIMEESEQ

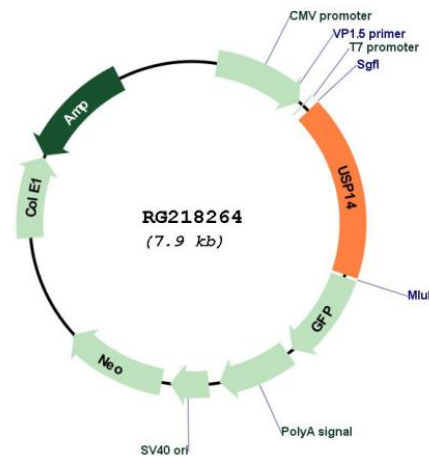
**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:


**Plasmid Map:**

**ACCN:** NM\_001037334

**ORF Size:** 1377 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.

<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>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001037334.2</a>
<b>RefSeq Size:</b>	4051 bp
<b>RefSeq ORF:</b>	1380 bp
<b>Locus ID:</b>	9097
<b>UniProt ID:</b>	<a href="#">P54578</a>
<b>Cytogenetics:</b>	18p11.32
<b>Protein Families:</b>	Druggable Genome, Protease
<b>Gene Summary:</b>	<p>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 ubiquitinated 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]</p>