

## Product datasheet for **MG211165**

### **Usp4 (BC011341) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Usp4 (BC011341) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Usp4
Synonyms:	F730026I20Rik; mKIAA4155; Unp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG211165 representing BC011341  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGGAAGGCCGGGGCAGCCGTGAGCGACCCGGATGTGGAGACCCAGAAGACGGAGCTCGGAGCCTTGA  
 TGGGGACCACGCTCCAAGTGGGGCGCAGTGGTATCTTATTGACAGCCGGTGGTTCAAGCAGTGGAAAGAA  
 GTATGTGGGCTTTGACAGCTGGGACATGTACAATGTCGGGGAGCATAACCTGTTTCCTGGACCGATTGAC  
 AACTCCGGACTCTTCTCAGATCCTGAGAGTCAGACCTGAAGGAGCACTTAATCGATGAGCTGGACTATG  
 TGCTGGTCCCAGCCGAAGCCTGGAATAAATTGCTGAATTGGTATGGCTGTGTGGAGGGTCAGCAGCCTAT  
 TGTGAGAAAAGTTGTGGAGCATGGCCTGTTTGTCAAGCACTGCAAAGTGGAAAGTGTATTTGCTGGAGCTG  
 AAGCTCTGTGAGAACAGTGACCCACCAATGTGCTAAGTTGCCATTTTAGCAAAGCAGACACCATTGCAA  
 CTATTGAGAAGGAGATGAGGAAGCTCTTCAACATCCCTGCAGAACGTGAAACACGGCTTTGGAACAATA  
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 GAGTACTTTCTCAAAGATGAGTATGAGGCCGAGATCAACCGAGACAACCCCTCTGGGGATGAAAGGGGAGA  
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 ACATTTTTGTGTATGAGGTCTGCAACATGTCCATGGATGGCTCAGAGTGTATCACTCTTCCAGTCTACTT  
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 TAGCTATGAAGGAGATGAAGAGGAAGAAATGGATCATCAAGAGGAAGGAAAAGAGCAGCTTTCGGAAGTG  
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 GGCACAAGAGGCTCTTTACCTTCAGCCTCGTGAACCTCCTGTGAACTGCTGATATCAATTCAGTGGCAAC  
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 AAGATCCTGGTGGTTACCTCAAGCGTTTTCTCCTATAACAGATACTGGCGGGATAAACTTGACACCGTCG  
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 CGAAAGCCGCTACGTGTTGTTCTATCAGCGTGGGATGACGAATGCTCCAGCACATCTTCGCTCGGCAG  
 TTTCCCGGTTCTGATGGAGGGTGAAGCTGAGCAGCTCACACCAGGGCATGGGGATGAGGAGGCTTAC  
 AACATGGACACCAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG211165 representing BC011341  
 Red=Cloning site Green=Tags(s)

MAEGRGSRERPDVETQKTELGALMGTTLQRGAQWYLIDSRWFKQWKKYVGFDSWDMYVNGEHNLFPGPID  
 NSGLFSDPESQTLKEHLIDELDYVLVPAEAWNKLLNHWYGCVEGQQPIVRKVVEHGLFVKHCKVEVYLLEL  
 KLCENS DPTNVL SCHFSKADTIATIEKEMRKL FNIPAE RETRL WNKYMSNTYEQL SKLDNTIQDAGLYQG  
 QVLVIEPQNE DGTWPRQSLQSN GSGF SASYN CQEPSPH IQPGL CGLGNLGNTCFMNSALQCL SNTAPLT  
 EYFLKDEYEA EINRDNPLGMKGEIAEAYAE L IKQMWSGRDTHVAPRMFKTQVGRFAPQFSGYQQQDSQEL  
 LAFILDGLHEDLNRVKKKPYLEPKDANGRPDAVVAKEAWENHRLRND SVIVDTFHGLFKSTLVCPECAKV  
 SVTFDPFCYLTLP LPLKDRIMEVFLVPADPQCRPIQYRVTVPLMGAISDLCEALSKLSGIAAENMVVTD  
 VYNHRFHKIFQMDEGLSHITPRDDIFVVEVCNMSMDGSECITLPVYFREKKS RPS SASSGAVLYGQPLL V  
 SVPKHLTLESLYQAVCDRISRYIKQPLPDEF LSSPLEPGACNGSRSSYEGDEEEEEMDHQEEGKEQLSEV  
 EGGEDDQGDHSESAQVKGQPRHKRLF TFSLVNSCGTADINSLATDGKLLKLSRSTLAIDWSETRS  
 LYFDEQESEACEKHL SMSQPQKKKAAVALRECIE LFTT METLGEHDPWYCP TCKKHQQA TKKFDLWSP  
 KILVVHLKRF SYNRYWRDKLDTVVEFPVRALNMSEFVCDRSARPVYVDLIAVSNHYGAMGVGHYAYAKN  
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 NMDTN

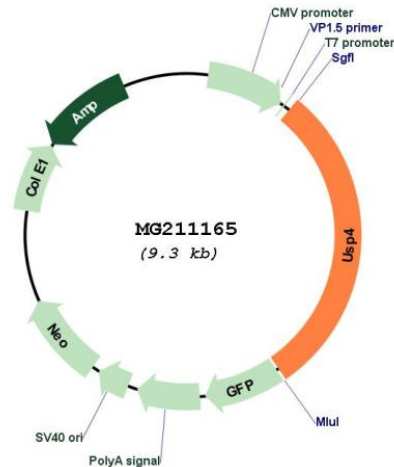
TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** BC011341

**ORF Size:** 2747 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:** [BC011341](#), [AAH11341](#)

**RefSeq Size:** 3455 bp

**RefSeq ORF:** 2747 bp

**Locus ID:** 22258

**Cytogenetics:** 9 59.25 cM

**Gene Summary:**

Deubiquitinating enzyme that removes conjugated ubiquitin from target proteins. Deubiquitinates PDPK1. Deubiquitinates TRIM21. Deubiquitinates receptor ADORA2A which increases the amount of functional receptor at the cell surface. May regulate mRNA splicing through deubiquitination of the U4 spliceosomal protein PRPF3. This may prevent its recognition by the U5 component PRPF8 thereby destabilizing interactions within the U4/U6.U5 snRNP. May also play a role in the regulation of quality control in the ER. [UniProtKB/Swiss-Prot Function]