

## Product datasheet for **MR211165**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Usp4 (BC011341) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Usp4
Synonyms:	F730026I20Rik; mKIAA4155; Unp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR211165 representing BC011341  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGGAAGGCCGGGGCAGCCGTGAGCGACCGGATGTGGAGACCCAGAAGACGGAGCTCGGAGCCTTGA  
 TGGGGACCACGCTCCAAGTGGGGCGCAGTGGTATCTTATTGACAGCCGGTGGTTCAAGCAGTGGAAAGAA  
 GTATGTGGGCTTTGACAGCTGGGACATGTACAATGTCGGGGAGCATAACCTGTTTCCTGGACCGATTGAC  
 AACTCCGGACTCTTCTCAGATCCTGAGAGTCAGACCTGAAGGAGCACTTAATCGATGAGCTGGACTATG  
 TGCTGGTCCCAGCCGAAGCCTGGAATAAATTGCTGAATTGGTATGGCTGTGTGGAGGGTCAGCAGCCTAT  
 TGTGAGAAAAGTTGTGGAGCATGGCCTGTTTGTCAAGCACTGCAAAGTGGAAAGTGTATTTGCTGGAGCTG  
 AAGCTCTGTGAGAACAGTGACCCACCAATGTGCTAAGTTGCCATTTTAGCAAAGCAGACACCATTGCAA  
 CTATTGAGAAGGAGATGAGGAAGCTCTTCAACATCCCTGCAGAACGTGAAACACGGCTTTGGAACAATA  
 CATGAGCAACACCTATGAGCAGTTGAGCAAGCTAGACAACACTATCCAGGATGCTGGGCTGTACCAGGGT  
 CAGGTGCTAGTAATTGAGCCCCAAAATGAAGATGGCACATGGCCCCGGCAGAGCCTGCAGTCAAATGGAT  
 CTGGCTTCTCTGCTTCGTATAATTGCCAGGAGCCCCCATCACCTCATATACAGCCTGGCCTCTGTGGACT  
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 GAGTACTTTCTCAAAGATGAGTATGAGGCCGAGATCAACCGAGACAACCCCTCTGGGGATGAAAGGGGAGA  
 TTGCAGAGGCCTATGCAGAGCTCATCAAGCAGATGTGGTCTGGAAGGGACACTCATGTGGCACCACGGAT  
 GTTCAAGACGCAAGTGGGACGTTTTGCCCTCAGTTTTCTGGCTACCAACAGCAAGACTCCCAGGAGCTG  
 CTAGCCTTTATTCTAGACGGACTGCACGAGGACCTGAACCGCGTAAAGAAGAAGCCTTACCTGGAGCCCA  
 AGGACGCCAATGGGCGACCAGATGCGGTGTAGCAAAGGAGCCTGGGAAAACCAAGGCTGAGTAATGA  
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 GTATATAATCACCGCTTCCACAAAATTTTCAAATGGATGAAGGTTTAAAGCCACATCACGCCCTCGAGATG  
 ACATTTTTGTGTATGAGGTCTGCAACATGTCCATGGATGGCTCAGAGTGTATCACTCTTCCAGTCTACTT  
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 TAAAACAGCCTTTGCCTGATGAGTTTCTCAGCTCACCTTAGAGCCTGGGGCCTGCAATGGCTCTAGGAG  
 TAGCTATGAAGGAGATGAAGAGGAAGAAATGGATCATCAAGAGGAAGGAAAAGAGCAGCTTTCGGAAGT  
 GAAGGCAGTGGTGAAGCAGATCAGGGAGATGACCATAGCGAGAGCGCCAAAAGGTGAAAGGCCAGCCGA  
 GGCACAAGAGGCTCTTTACCTTCAGCCTCGTGAACCTCCTGTGAACTGCTGATATCAATTCAGTGGCAAC  
 TGACGGGAAACTCCTCAAACCTCAACTCTCGATCCACACTGGCCATTGACTGGGACAGTGAGACCCGAAGC  
 CTTTACTTTGATGAGCAAGAATCTGAGGCCTGTGAGAAGCACCTGAGCATGTCACAGCCGCAGAAGAAGA  
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 CCCCTGGTACTGTCCCACCTGTAAGAAGCACCAGCAGGCAACAAGAAGTTTGACTTGTGGTCTTTGCC  
 AAGATCCTGGTGGTTACCTCAAGCGTTTTCTCTATAACAGATACTGGCGGGATAAACTTGACACCGTCTG  
 TGGAGTCCCAGTCAGAGCTCTGAACATGTCCAGTGTGCTGTGACCGTCCAGCAAGGCCTTATGTTTA  
 TGACCTAATTGCTGTGTCCAATCACTATGGAGCCATGGGGTTGGTCACTACACTGCATATGCGAAGAAC  
 AGACTGAACGGGAAATGGTATTACTTTGATGATAGCAGTGTGTCCTGGCCTCTGAGGACCAGATAGTGA  
 CGAAAGCCGCTACGTGTTGTTCTATCAGCGTGGGATGACGAATGCTCCAGCACATCTTCGCTCGGCAG  
 TTTCCCGGTTCTGATGGAGGGTGAAGCTGAGCAGCTCACACCAGGGCATGGGGATGAGGAGGCTTAC  
 AACATGGACACCAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR211165 representing BC011341  
Red=Cloning site Green=Tags(s)

MAEGRGSRERPDVETQKTEL GALMGTTLQRGAQWYLIDSRWFKQWKKYVGFDSWDMYVNVGEHNLFPGPID  
 NSGLFSDPESQTLKEHLIDELDYVLVPAEAWNKLLNHWYGCVEGQQPIVRKVVEHGLFVKHCKVEVYLLEL  
 KLCENS DPTNVL SCHFSKADTIATIEKEMRKL FNIPAE RETRLWNKYMSNTYEQLSKLDNTIQDAGLYQG  
 QVLVIEPQNE DGTWPRQSLQSN GSGF SASYN CQEPSPHIQPGLCGLGNLGNTCFMNSALQCL SNTAPLT  
 EYFLKDEYEA EINRDNPLGMKGEIAEAYAE L IKQMW SGRDTHVAPRMFKTQVGRFAPQFSGYQQDSQEL  
 LAFILDGLHEDLNRVKKKPYLEPKDANGRPDAVVAKEAWENHRLRND SVIVDTFHGLFKSTLVCP ECAKV  
 SVTFDPFCYLTLP LPLKDRIMEVFLVPADPQCRPIQYRVTVPLMGAISDLCEALSKLSGIAAENMVVTD  
 VYNHRFHKIFQMDEGLSHITPRDDIFVYVCNMSMDGSECITLPVYFREKKS RPS SASSGAVLYGQPLL V  
 SVPKHKL TLES L YQAVCDRI SRYIKQPLPDEF LSSPLEPGACNGSRSSYEGDEEEEMDHQE EGEQLSEV  
 EGSGEDDQGDHSESAQKVKGQPRHKRLF TFSLVNSCGTADINSLATDGKLLKLSRSTLAIDWDSETRS  
 LYFDEQESEACEKHL SMSQPQKKKAAVALRECIE LFTT METLGEHDPWYPTCKKHQQA TKKFDLWSP  
 KILVVHLKRF SYNRYWRDKLDTVVEFPVRALNMSEFVCDRSARPVYVDLIAVSNHYGAMGVGHYAYAKN  
 RLNGKWYYFDSSVSLASEDQIVTKAAYVLFYQRRDDECSSTSSLGSPGSDGGVKLSSSHQGMGDEEAY  
 NMDTN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

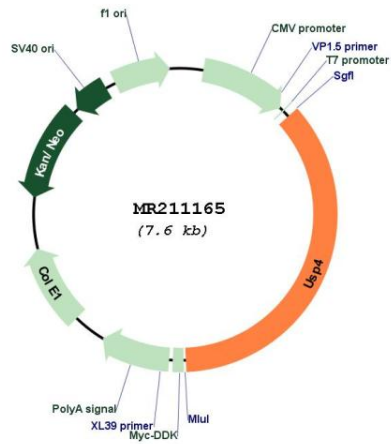


**ACCN:** BC011341

**ORF Size:** 2745 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>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="#">BC011341</a> , <a href="#">AAH11341</a>
<b>RefSeq Size:</b>	3455 bp
<b>RefSeq ORF:</b>	2747 bp
<b>Locus ID:</b>	22258
<b>Cytogenetics:</b>	9 59.25 cM
<b>MW:</b>	126.6 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for MR211165