

## Product datasheet for **MR226489**

### Usp4 (NM\_011678) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Usp4 (NM_011678) 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:**

>MR226489 representing NM\_011678  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGAAGGCCGGGGCAGCCGTGAGCGACCGGATGTGGAGACCCAGAAGACGGAGCTCGGAGCCTTGA  
 TGGGGACCACGCTCCAAGTGGGGCGCAGTGGTATCTTATTGACAGCCGGTGGTTCAAGCAGTGGGAAGAA  
 GTATGTGGGCTTTGACAGCTGGGACATGTACAATGTCGGGGAGCATAACCTGTTTCTGGACCTATTGAC  
 AACTCCGGACTCTTCTCAGATCCTGAGAGTCAGACCTGAAGGAGCACTTAATCGATGAGCTGGACTATG  
 TGCTGGTCCCAGCCGAAGCCTGGAATAAATTGCTGAATTGGTATGGCTGTGTGGAGGGCCAGCAGCCTAT  
 TGTGAGAAAAGTTGTGGAGCATGGCCTGTTTGTCAAGCACTGCAAAGTGGAAAGTGTATTTGCTGGAGCTG  
 AAGCTCTGTGAGAACAGTGACCCACCAATGTGCTAAGTTGCCATTTTAGCAAAGCAGACACCATTGCAA  
 CTATTGAGAAGGAGATGAGGAAGCTCTTCAACATCCCTGCAGAACGTGAAACACGGCTTTGGAACAATA  
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 GCACTGCACCTAGCAGAAATTTCACTACCTCTTCAAACCATCCGCAAGTCCCTATTGCTCAGTGTCTGC  
 CTCTCTCATTGCAAATGGTATAGCACTAACAGCTCTGGGATGCACAGCTCCGGTGTGACAGGGGTGGA  
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 TGAGTACTTTCTCAAAGATGAGTATGAGGCCGAGATCAACCGAGACAACCTCTGGGGATGAAAGGGGAG  
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 GTTTCAAGACGCAAGTGGGACGTTTTGCCCTCAGTTTTCTGGCTACCAACAGCAAGACTCCCAGGAGCT  
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 AAGGACGCCAATGGGCGACCAGATGCGGTGGTAGCAAAGGAAGCCTGGGAAAACACAGGCTGAGGAATG  
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 TTCTGTGACCTTTGACCCATTTTGTATCTAATCTCCCACTGCCTTTGAAGAAGGATCGGATTATGGAG  
 GTCTTCTGGTCTCTGCTGACCCCTCAGTGCAGACCTATCCAGTACCGTGTGACTGTGCCATTGATGGGG  
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 TGTATATAATCACCGCTCCACAAAATTTCAAATGGATGAAGTTTAAGCCACATCACGCTCGAGAT  
 GACATTTTGTGTATGAGGTCTGCAACAGTCCATGGATGGCTCAGAGTGTATCACTCTTCCAGTCTACT  
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 GTAGCTATGAAGGAGATGAAGAGGAAGAAATGGATCATCAAGAGGAAGGAAAAGAGCAGCTTCCGAAGT  
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 AAGAAGGCGCAGTAGCCCTGCGAGAGTGCATCGAGCTTTCACCACCATGGAGACCCTTGGGGAGCATG  
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 CAAGATCCTGGTGGTTCACCTCAAGCGTTTCTCTATAACAGATACTGGCGGGATAAACTTGACACCGTG  
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 ATGACCTAATTGCTGTGTCATCACTATGGAGCCATGGGGTGGTCACTACACTGCATATGCCAAGAA  
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 ACGAAAGCCGCTACGTGTTGTTCTATCAGCGTGGGATGACGAATGCTCCAGCACATCTTCGCTCGGCA  
 GTTTCCCCGTTCTGATGGAGGGTGAAGCTGAGCAGCTCACACCAGGCATGGGGATGAGGAGGCTTA  
 CAACATGGACACCAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226489 representing NM\_011678  
 Red=Cloning site Green=Tags(s)

MAEGRGSRERPDVETQKTELGALMGTTLQRGAQWYLIDSRWFKQWKYVGFDSWDMYVNGEHNLFPGPID  
 NSGLFSDPESQTLKEHLIDELDYVLVPAEAWNKLLNHYGCVGQQPIVRKVVEHGLFVKHCKVEVYLLEL  
 KLCENS DPTNVL SCHFSKADTIATIEKEMRKL FNIPAEERETRLWNKYMSNTYEQLSKLDNTIQDAGLYQG  
 QVLVIEPQNE DGTWPRQSLQSKSSTAPSRNFTTSSKPSASPYCSVSASLIANGDSTNSSGMHSSGVSRGG  
 SGFSASYNCEPPSPHIQPLGCLGNLGNTCFMNSALQCLSNAPL TEYFLKDEYEA EINRDNPLGMKGE  
 IAEAYAELIKQMWSGRDTHVAPRMFKTQVGRFAPOFSGYQQQDSQELLAFILDGLHEDLNRVKKKPYLEP  
 KDANGRPDAVVAKEAWENHRLRND SVIVDTFHGLFKSTLVCPECAKVS VTFDPFCYLTLP LPLKKDRIME  
 VFLVPADPQCRPIQYRVTVPLMGAISDLCEALSKLSGIAAENMVVTDVYNHRFHKIFQMDEGLSHITPRD  
 DIFVYEV CNTSMDGSECITLPVYFREKKS RPSSASSGAVLYGQPLLVSVPKHKL TLESLYQAVCDRISRY  
 IKQPLPDEF LSSPLEPGACNGSRSSYEGDEEEMDHQEEGKEQL SEVEGSGEDDQGDHSESAQKVKGP  
 RHKRLFTFSLVNSCGTADINSLATDGKLLKLSRSTLAIDWSETRSLYFDEQESEACEKHL SMSQPQKK  
 KKAVALRECIELFTT METLGEHDPWYPTCKKHQQATKKFDLWSLPKILVVHLKRF SYNRYWRDKLDTV  
 VEFPVRALNMSEFVCDRSARPYVDLIAVSNHYGAMGVGHYTAYAKNRLNGKWY YFDDSSVSLASEDQIV  
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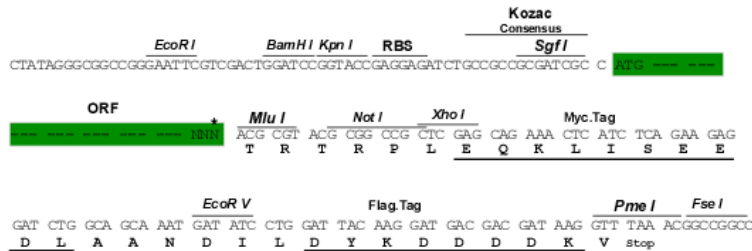
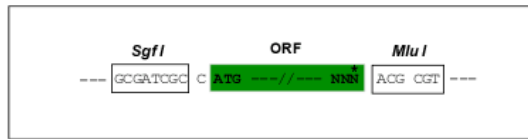
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/ja1206\\_e09.zip](https://cdn.origene.com/chromatograms/ja1206_e09.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



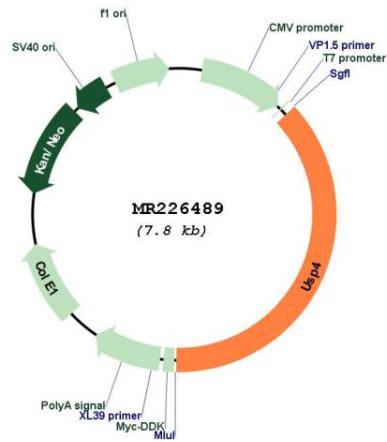
\* The last codon before the Stop codon of the ORF

ACCN: NM\_011678

ORF Size: 2886 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="#">NM_011678.2</a> , <a href="#">NP_035808.2</a>
<b>RefSeq Size:</b>	3686 bp
<b>RefSeq ORF:</b>	2889 bp
<b>Locus ID:</b>	22258
<b>UniProt ID:</b>	<a href="#">P35123</a>
<b>Cytogenetics:</b>	9 59.25 cM
<b>MW:</b>	108.8 kDa
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for MR226489