

## Product datasheet for **RR206484**

### Usp21 (NM\_001127638) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Usp21 (NM_001127638) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Usp21
Synonyms:	MGC187584
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide Sequence:**

>RR206484 representing NM\_001127638  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCCCAGGCTTCTGAGCACCGCTGGGCCGGACTCGAGAGCCACCTGTCAATGTACAGCCCCGAGTGG  
 GAGCCAAGATACGTTTTCTCCCGGGCCCGCAGCAAGGAGCGCGAAACCCAGTTCCTGGGCCAACTC  
 CATGTTACGACCTTTCCTCCCAGGCCAGTCCCCAGATGAAAGGCTCAAGAACTGGATTGGGTTCGG  
 GGTTCGGACCTCAGGCTCTCGTCCTAGAGGTCCCCTTCGAGCAGATCATGGGGTTCCTTGCCTGGCTCAC  
 CACCCCAACTGTGGCTCTGCCTCTCCCATCCCGACCAACCTAACCCGATCCAAGTCTGTGAGCAGTGG  
 GGACTTGCCTCAATGGGATTGCCTTGGGAGGGCACCGTGGCACTGGCGAGCTAGGGGCTGCACCTGAGC  
 CGCCTGGCACTCCGGCTGAGCCACCCACTTTGAGACGTAGTACTTCTCTCCGGCGTCTTGGGGTTTCC  
 CTGGACCCCTACCTGCTCAGCATAACGACAGAGCCCTCCTCCCATGGCTCCTCCACATGATATC  
 TGCCCGGCTTCTGAGCCTTTACTCTGATGACAAGATGGCTCACCACACTGCTTCTGGGCTCTGGT  
 CATGTTGGCCTCCGAAATCTAGGAAATACATGTTCTGAAACCGGTGTTACAGTGTGAGCAGCAAA  
 GGCTTCTCGAGACTTTGTCTGCGAAGGGACTTCCGGCAAGAGGTGCCCGGAGGAGGCCAGCCAGGA  
 ACTCACAGAAGCCTTTCAGATGTGATTGGTGCCTCTGGCACCTGACTCCTGTGAAGCTGTGAATCCT  
 ACCCGATTCCGGGCTGTCTTCCAGAAATACGTCCTTCTTCTCTGGATACAGCCAGCAGGATGCCAAAG  
 AGTTCCTGAAGCTCCTTATGGAGCGTTGCACCTCGAAATCAACCGACGAGGCCCGGGCCACCACCAAT  
 TCTGGCCAGTGGTCCAGTTCCTCCCACTCGCCGAGGAGGGCTCTGCATGAAGAACCTGAAGTGAAGT  
 GATGATGACCGAGCCAACCTAATGTGGAAGCGCTACCTGGAGCGAGAAGACAGCAAGATTGTGGACCTGT  
 TTGTGGCCAGCTGAAAAGTTCCCTCAAGTGCCAGGCTGTGGGTATCGCTCCACGACCTCGAGGTTTT  
 TTGTGACCTGTCCCTGCCATCCCAAGAAAGGATTTGCTGGGGCAAGTGTCTTTGCGGGATTGCTTC  
 AGCCTTTTACCAAGGAGGAGGAGCTAGAGTCGGAGAATGCCCAAGTATGTGACCGATGTGCGCAGAAAA  
 CACGAAGTACAAAAAGTTGACAGTACAAAGATTTCCCGAATCCTCGTCTCCATCTGAACCGATTTTC  
 CACCTCCCGAGGCTCCATCAAGAAAAGTTGAGTGGTGTAGACTTCCCACTGCAGCGACTAAGCCTAGGG  
 GACTTTGCCAGCGACAAAGTGGGAAGCCCTGTCTACCAGCTGTATGCCCTTTCGAACCACTCGGGTAGTG  
 TCCACTATGGCCACTACACAGCCCTGTGCCGTGCCAGACTGGTGGCATGTCTACAATGACTCCCGTGT  
 CTCCTGTCAGTAAAACAGGTGGCATCCAGTGAAGGCTACGTGCTGTTCTACCAATTGATGCAGGAA  
 CCACCTCGGTGCCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR206484 representing NM\_001127638  
 Red=Cloning site Green=Tags(s)

MPQASEHRLGRTREPPVNVQPRVGAKIPFPPRARSKERRNPVPGPNSMLRPLPPRPGPPDERLKKLDLGR  
 GRTSGSRPRGPLRADHGVLPGSPPTVALPLPSRTNLTRSKSVSSGDLRPMGIALGGHRTGELGAALS  
 RLALRPEPPTLRRSTSLRRLGGFPGPPTLLSIRTEPPPSHGSFHMISARPSEPFYSDDKMAHHTLLLGSG  
 HVGLRNLGNTCFLNAVLQCLSSTRPLRDFCLRRDFRQEVPGGGRAQELTEAFADVIGALWHPDSCEAVNP  
 TRFRAVFQKYVPSFSGYSQQDAQEFLKLLMERLHLEINRRGRRAPPILASGPVPSPPRRGGALHEEPELS  
 DDDRANLMWKRYLEREDSKIIVDLFVGQLKSKLKCQACGYRSTTFEVFCDLSLPIPKKGFAGGKVSRLRDCF  
 SLFTKEEELSEENAPVCDRCRQKTRSTKTLVQRFPRIILVLHLNRFSTSRGSIKSSVGVDFPLQRLSLG  
 DFASDKVGSVPVYQLYALCNHSGSVHYGHYALCRCQTGWVHYNDSRVSPVSENQVASSEGYVLFYQLMQE  
 PPRCL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

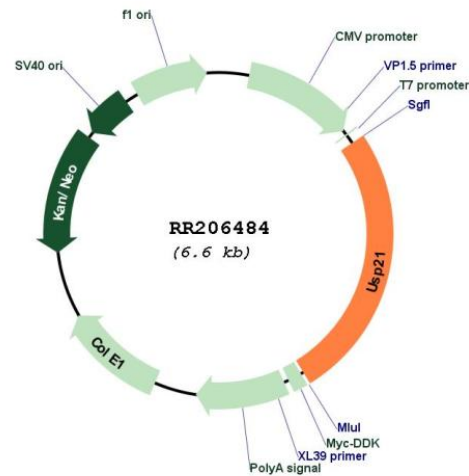
Cloning Scheme:

Cloning sites used for ORF Shutting:



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

Plasmid Map:



ACCN: NM\_001127638

ORF Size: 1695 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_001127638.1</a> , <a href="#">NP_001121110.1</a>
<b>RefSeq Size:</b>	2266 bp
<b>RefSeq ORF:</b>	1698 bp
<b>Locus ID:</b>	688466
<b>UniProt ID:</b>	<a href="#">B2GUX4</a>
<b>Cytogenetics:</b>	13q24
<b>MW:</b>	62.7 kDa
<b>Gene Summary:</b>	Deubiquitinates histone H2A, a specific tag for epigenetic transcriptional repression, thereby acting as a coactivator. Deubiquitination of histone H2A releases the repression of di- and trimethylation of histone H3 at 'Lys-4', resulting in regulation of transcriptional initiation. Regulates gene expression via histone H2A deubiquitination. Also capable of removing NEDD8 from NEDD8 conjugates but has no effect on Sentrin-1 conjugates. Deubiquitinates BAZ2A/TIP5 leading to its stabilization.[UniProtKB/Swiss-Prot Function]