

## Product datasheet for **MG208939**

### Usp21 (NM\_013919) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Usp21 (NM_013919) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Usp21
Synonyms:	ESTM28; Usp16; Usp23; W53272
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208939 representing NM\_013919  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCCCAGGCTTCTGAGCACCGCTGGGCCGGACTCGAGAGCCACCTGTCAATGTACAGCCCCGAGTGG  
 GAGCCAAGATACCATTTCTCCCGGGCAGCAGCAAGGAGCGCGAAACCCAGTTCCTGGGCCAAACTC  
 CATGTTACGACCTTTGCCTCCCAGGCCAGTCCCCAGATGAAAGGCTCAAGAACTGGAGCTGGGTCGG  
 GGTGGACCTCAGGCTCTCGTCTAGAGGTCCCCTTCGAGCAGATCATGGGGTCCCCTGCCTGGCTCAC  
 CGCCCCAGCTGTGGCTCGCTCTCCCATCCCGGACCACTTAGCCCGTTCCAAGTCTGTGAGCAGTGG  
 GGACTTGCCTCAATGGGATTGCCTTGGGAGGGCACCGTGGCGTGGCGAGCTAGGGGCTGCACTGAGC  
 CGCTTGGCACTCCGGCTGAGCCACCCACTTTGAGACGTAGTACTTCTCTCCGGCGTCTTGGGGCTTCC  
 CTGGCCCCCTACCTGCTCAGCATAACGACAGAGCCCCCTACTTCCCATGGCTCCTTCCACATGATATC  
 TGCCCCGCTTCTGAGCCTTTACTCTGATGACAAGATGGCTCACACACACTGCTTCTGGGTTCTGGT  
 CATGTTGGCCTCCGAAATCTAGGAAATACATGTTCTCTGAATGCCGTGCTACAGTGTGAGCAGCAAA  
 GGCTTCTCGAGACTTCTGTCTGCGAAGGGACTTCCGGCAAGAGGTGCCCGGAGGAGGCCGAGCCAGGA  
 ACTCACAGAAGCCTTTCAGATGTGATTGGTGCCTCTGGCACCTGACTCCTGTGAAGCTGTGAATCCC  
 ACCCGATTCCGGGCTGTCTTCCAGAAATACGTCCTTCTTCTCTGGATACAGCCAGCAGGATGCCAAAG  
 AGTTCCTGAAGCTCCTCATGGAGCGTTGCACCTTGAGATCAACCGACGAGGGCGCCGGGACCCGCAAT  
 CTTGGCCAGCGGTCCAGTCCCTCTCCACTCGCCGAGGAGGAGGGGCTCGCATGAAGAACCTGAGTTG  
 AGTGATGACGACCGCAACTTAATGTGAAGCGCTACCTGGAGCGAGAAGACAGCAAGATTGTGGACC  
 TGTTTGTGGGCCAGTTGAAAAGTTGCCTCAAGTGCCAGGCTGTGGGTATCGCTCCACGACTTCGAGTT  
 TTTTGTGACCTGTCCCTGCCATCCCCAAGAAAGGATTTGCTGGGGGCAAAGTGTCTTTGGCGGATTGC  
 TTCAGCCTTTTACCAAGGAGGAAGAGCTAGAGTCGGAGAATGCCCAAGTGTGTGACCGATGTGCGCAGA  
 AAACCCGAAGTACAAAAAGTTGACAGTACAAAGATTCCCCGAATCCTCGTGTCCATCTGAACCGATT  
 TTCCACTCCCGAGGCTCCATCAAGAAAAGTTCAGTAGGTGTAGACTTCCCACTGCAGAGACTAAGCCTA  
 GGGGACTTTGCCAGCGACAAAGCGGGAAGCCCTGTCTACCAGCTGTATGCCCTTTGCAACCACTCGGTA  
 GTGTCCACTATGGCCACTACACAGCCCTGTGCCGGTCCAGACTGGTTGGCATGTCTACAATGACTCCCG  
 CGTTTCCCCTGTGAGTAAAATCAGGTGGCATCCAGTGGGGCTACGTGCTGTTCTACCAATTGATGCAG  
 GAACCACTTCGGTGCCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG208939 representing NM\_013919  
 Red=Cloning site Green=Tags(s)

MPQASEHRLGRTREPPVNVQPRVGAKIPFPPRARSKERRNPVPGPNSMLRPLPPRPGPPDERLKKLELGR  
 GRTSGSRPRGPLRADHGVP LPSRTPNARSKSVSSGDLRPMGIALGGHRGAGELGAALS  
 RLALRPEPPTLRSTSLRRLGGFPGPPTLLSIRTEPPTSHGSFHMI SARPSEPFYSDDKMAHHTLLLGSG  
 HVGLRNLGNTCF LNAVLQCLSTRPLRDFCLRRDFRQEVPGGGRAQELTEAFADVIGALWHPDSCEAVNP  
 TRFRAVFQKYVPSFSGYSQQDAQEFLKLLMERLHLEINRRGRRAPPILASGPVSPPRRGGGALHEEPEL  
 SDDDRANLMWKRYLEREDSKIIVLDFVQQLKSLCKQACGYRSTTFEVFCDLSLPIPKKGFAGGKVSRLDC  
 FSLFTKEEELSENAPVCDRCRQKTRSTKKT VQRFPRI LVLHLNRFSTSRGSIKSSVGVDFPLQRLSL  
 GDFASDKAGSPVYQLYALCNHSGSVHYGHYALCRCQTGWHVYND SRVSPVSENQVASSEGYVLFYQLMQ  
 EPLRCL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

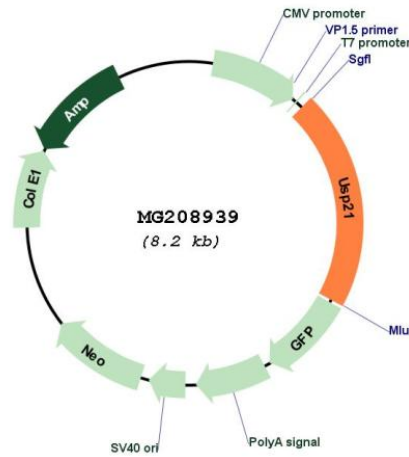
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_013919  
 ORF Size: 1698 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_013919.3</a>
<b>RefSeq Size:</b>	2199 bp
<b>RefSeq ORF:</b>	1701 bp
<b>Locus ID:</b>	30941
<b>UniProt ID:</b>	<a href="#">Q9QZL6</a>
<b>Cytogenetics:</b>	1 79.3 cM
<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 (By similarity).[UniProtKB/Swiss-Prot Function]