

Product datasheet for **MG207319**

Usp14 (NM_001038589) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp14 (NM_001038589) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Usp14
Synonyms:	2610005K12Rik; 2610037B11Rik; AW107924; ax; C78769; nmf375
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207319 representing NM_001038589
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCACTCTACTCTGTTACAGTAAAATGGGAAAGGAGAAGTTGAAGGTGTAGAATTGAATACTGATG
 AACCTCCAATGGTGTCAAAGCCAGCTTTTTGCATTGACTGGAGTCCAGCCAGCCAGACAAAAAGTTAT
 GGTGAAAGGAGGAACCTGAAGGATGATGACTGGGAAACATCAAATGAAAAATATGGAATTGCCATGT
 GGATTGACAAACCTTGGTAACACTTGTACATGAATGCTACAGTTCAGTGTATTGCTTCTGTGCCTGAAC
 TCAAAGATGCCCTAAAAGGTATGCAGGTGCGTTGAGAGCTTCAGGAGAAATGGCTTCAGCACAGTATAT
 TACTGCAGCTCTAGAGATTTGTTTATTCCATGGATAAACTTCTTCTAGTATCCACCTATTATTCTG
 CTGCAGTTTCTGCACATGGCCTTCCACAGTTTGCAGAGAAGGGCGAACAAGGGCAGTATCTTCAGCAGG
 ATGCTAGCGAATGCTGGATACAAATGATGAGAGTCTGCAACAGAACTAGAAGCCATAGAGGATGATTC
 TGGTAGAGAGACGGATTCTTCATCTGCACCAGCGGTGACACCTTCTAAAAAGAAAAGCTTAATTGATCAA
 TATTTTGGTGTGAGTTTGAACACTACCATGAAATGTACAGAATCTGAAGAAGAAGAGGTCACCAAAGGAA
 AGGAAAATCAACTTCAACTTAGTTGTTTTCATTAACCAGGAAGTGAAGTATCTTTTTCACAGGGCTGAAAT
 GCGACTTCAGGAAGAAATTAATAACAGTCTCCAACACTGCAGAGAAATGCTTTGTACATCAAATCTTCT
 AAGATCAGCCGGCTACCTGCTTACTTAACATTTCAAATGGTTCGATTTTTTTATAAGAGAAAGAATCTG
 TGAACGCCAAAGTTCTTAAGGATGTTAAGTTTCTCTTATGTTGGATGTGTATGAACTCTGCACACCAGA
 ACTTCAAGAGAAAATGGTCTCTTTTCGGTCAAAATCAAGGATCTAGAAGATAAAAAAGTGAATCAGCAA
 CCAAATGCAATGACAAGAATAGTCTCCGAAAGAGATTAAGTATGAACCTTTTTCATTTGCTGACGATA
 TTGGCTCCAATAATTGTGGCTACTATGACTTACAAGCAGTGTAACTCACCAGGGAAGATCTAGTTCTTC
 AGGTCATTATGTATCATGGGTGAGAAGAAAACAAGATGAATGGATCAAATTTGATGGTGATAAGGTCAGC
 ATTGTAACCCAGAGATATTCTGCGGCTGTCTGGTGGTGGAGACTGGCACATTGCTTATGTTCTACTTT
 ATGGCCCTCGAAGAGTTGAAATAATGGAAGAAGAAAGTGAACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207319 representing NM_001038589
 Red=Cloning site Green=Tags(s)

MPLYSVTVKWGKEKFEQVELNTDEPPMVFAQLFALTGVQPARQKVMVKGGLKDDDWGNKMKMELPC
 GLTNLGNTCYMNATVQCIRSVPELKDALKRYAGALRASGEMASAQYITAALRDLFDSMDKTSSSIPPIIL
 LQFLHMAFPQFAEKGEQQYLQQDASECWIQMMRVLQQKLEAIEDDSGRETDSSSAPAVTPSKKSLIDQ
 YFGVEFETTMKCTESEEEEEVTGKQENQLQLSCFINQEVKYLFTGLKRLQEEITKQSPTLQRNALYIKSS
 KISRPLPAYLTIQMVRFYKEKESVNAKVLKDVKFPLMLDVYELCTPELQEKMVSFRSKFKDLEDKKNVQQ
 PNANDKNSPPKEIKYEPFSADDIGSNNGYYDLQAVLTHQGRSSSGHYVSWVRRKQDEWIKFDGDKVS
 IVPEDILRLSGGDWHIAYVLLYGPVRRVEIMEESEQ

TRTRPLE - GFP Tag - V

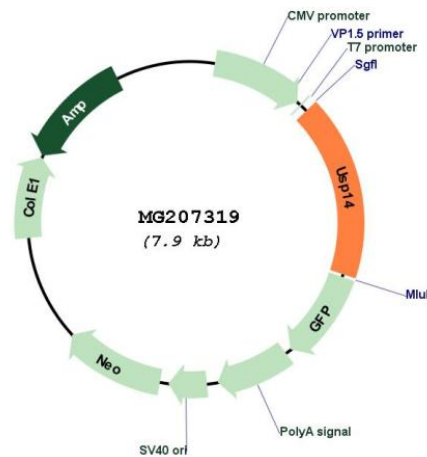
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001038589

ORF Size: 1374 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:	<ol style="list-style-type: none">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:	<u>NM_001038589.2</u> , <u>NP_001033678.1</u>
RefSeq Size:	4080 bp
RefSeq ORF:	1377 bp
Locus ID:	59025
Cytogenetics:	18 4.91 cM
Gene Summary:	Proteasome-associated deubiquitinase which releases ubiquitin from the proteasome targeted ubiquitinated proteins. Ensures the regeneration of ubiquitin at the proteasome. Is a reversibly associated subunit of the proteasome and a large fraction of proteasome-free protein exists within the cell. Required for the degradation of the chemokine receptor CXCR4 which is critical for CXCL12-induced cell chemotaxis. Serves also as a physiological inhibitor of endoplasmic reticulum-associated degradation (ERAD) under the non-stressed condition by inhibiting the degradation of unfolded endoplasmic reticulum proteins via interaction with ERN1. Plays a role in the innate immune defense against viruses by stabilizing the viral DNA sensor CGAS and thus inhibiting its autophagic degradation.[UniProtKB/Swiss-Prot Function]