

Product datasheet for **MG210032**

Usp49 (NM_198421) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp49 (NM_198421) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Usp49
Synonyms:	C330046L10Rik; Gm545
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210032 representing NM_198421
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATAGATGCAAACATGTAGGGCGTTACGGCTCGCCAGGACCACTCCATCCTGAATCCCCAGAAGT
 GGTGCTGTCTGCAGTGCGCCACCAACCGAGTCTGGGTGGGCTGCCTCAAGTGCTCCACGTGGCCTGCGG
 CCGCTACATTGAAGACCATGCACTAAAACACTTTGAAGAGACAGGACACCCGCTGGCCATGGAGGTCGG
 GACCTCTACGTGTTCTGTACTGTGCAAGGACTACGTGCTCAATGACAACCCGGAGGGGACCTGAAGT
 TGCTGAGAAGCTCCCTCTGGCAGTTCGAGGCCAGAAGCAGGACCTGCTCGCCAGGCGTGGGCGGACGCT
 GCGGTCCACAGCTGCGGGCGAGGACGTGGTCCCGCCACAGCGCACTCCTCAGGGACAGCCGAGATGCTC
 ACGGCTCTGTGGTACCGGCGCCAGCGCTGCTGGCCAAGACGCTGCGGCTCTGGTCCAGAAGAGCTCCC
 GCGGCCGGGCGCAGCTGGAGCAGCGGCGCAGGAGGAGGCGCTGGAGCGCAAGAAGGAGGCGGCGCGGCA
 GCGGCGCGCGAGGTCAAGCGGCGGCTGCTGGAGGAGTGCCAGTGCGCCGCCGGAAGAGTGCAGCGC
 CTGCTCCTGCACGCTCCCGGGCCCGTGGCCGTGCGCCCTGCCACCCTCGTACCTCCCGGCGCTTGCCG
 CAGCTGCCCTCAATCCGCGCCGCGAGCCGGCGGTGGCCCCAGGTGTACCAGGCTGCGCAACCTGGGAA
 TACCTGTACATGAACCTCATCCTCCAAGTGTCAAGCCACTCCAGAAGTCCGGGAATGTTTCTGAAC
 CTCGACCCCTCCACCTCCGAGCAGCTGTTTCCCAAGCAACCAACGGGAAGGCGCAGCTCTCTGGTAGGC
 CAGCCAGCAGCTCTGCCGAGAGTTGTCAAGTGTCCGGGCCAGGGCTGCGAACCTCAGGGCT
 CTGCTGGAGCAGCGGAGCCTCCATCAGCAGGAGCCTGGAGCTATTGAGAACAAGGAACCCAGCTCAAAG
 CACATTTCCCTCTGCCACGAACGCACACCCTCTCCGAGTCATGTGGTCTGGGAAGTGGGCGCTGGTAT
 CACCCCTTGGCATGCTTCACTCCGTGTGGAGCCTGATTCCCGCCTTCCGTGGCTACGACCAGCAGGATGC
 GCAGGAATTTCTCTGCGAACTGCTGCACAAGGTGCAGCAGGAACCTTGAGTCTGAGGGTTCCACACGAGG
 ATCCTCATCCCATTCTCCAGAGGAAGCTCACCAACAGGTCTTAAAGTGGTGAACACCATATTTTCATG
 GGCAGCTGCTCAGTCAGTCCATGTATATCATGCAATTATAAATCCAATACCATTGAGCCCTTTTGGGA
 TCTGTCCCTGGAATCCCTGAACGATACCACTGCATAGAAAAGGGGTTTGTCCCTTTGAATCAGACAGAG
 TGCCTGCTCACTGAGATGCTAGCCAAGTTCACCGAGACAGAGGCCCTGGAGGGGAGAATCTACGCTTGTG
 ACCAGTGAACAGCAAACGACGAAAGTCCAACCCCAACCCCTTGTCTGAGTGAAGCTAGGAAGCAGTT
 AATGATCTACAGACTACCTCAGGTCTCCGGCTACACCTTAAAAGATTCAGGTGGTCTGGCCGTAACCAT
 CGTGAGAAGATTGGGGTCCATGTATCTTTGACCAGGTATTAACCATGGAACCTTACTGCTCAGGGACA
 TGCTCTCCTCTTTGACAAAGAGACCTTTGCCTATGATCTCTCCGAGTGGTTCATGCATCACGGGAAAGG
 GTTTGGCTCAGGACACTACACAGCCTATTGCTACAACACAGAGGGAGGTTTTTTGGGTCCACTGCAATGAC
 TCAAAGCTGGATGTATGCAGTGTGAGGAAGTGTGCAAAACCCAGGCCTACATTCTTTTTTACACTCGAA
 GAACAGTTCAGGGCAGCGCAAACTCTCAGAACCCCATCTCCAAGCTCAGGTGCACTCCAGCAGCAAGGA
 CGAACGCAGAACATACACATTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210032 representing NM_198421
 Red=Cloning site Green=Tags(s)

MDRCKHVGRLRLAQDHSILNPQKWCCCLQCATTESAWACLKCSHVACGRYIEDHALKHFEETGHPLAMEVR
 DLYVFCYLCKDYVLNDNPEGDLKLLRSSLLAVRGQKQDLLARRGRTLSTAAAGEDVPPQRTPPQQPQML
 TALWYRRQRLAKTLRLWFQKSSRGRAQLEQRRQEEALERKKEAARQRRREVKRRLEELASAPPRKSAR
 LLLHAPGPVAVRPATLATSRRLSAAALNPRRQP AVAPGVTGLRNLGNTCYMNSILQVLSHLQKFRECFLN
 LDPSTSEHLFPQATNGKAQLSGRPASSSAAELSVRSVRAQGCPEQGLCWSSGASISRSLELIQNKEPSSK
 HISLCHLHHTLFRVMWSGWKVALVSPFAMLHVSWSLIPAFRGYDQQDAQEFLCELLHKVQQELESEGSTRR
 ILIPFSQRKLTQVQVKVNTIFHGQLLSQVTCISCNYSNTIEPFWDLSEFPERYHCIEKGFVPLNQTE
 CLLTEMLAKFTETEALGRIYACDQCNSKRRKSNPKPLVLSEARKQLMIYRPLQVLRHLKRFWRSGRNH
 REKIGVHVIFDQVLTMEPYCCRDMLSSLDKETFAFDLSAVVMHHGKGFSGHYTAYCYNTEGGFVWHCND
 SKLDVCSVEEVCKTQAYILFYTRRTVQGSAKLSEPHLQAQVHSSSKDERRTYTLP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198421

ORF Size: 2055 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:

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: [NM_198421.2](#)

RefSeq Size: 5598 bp

RefSeq ORF: 2058 bp

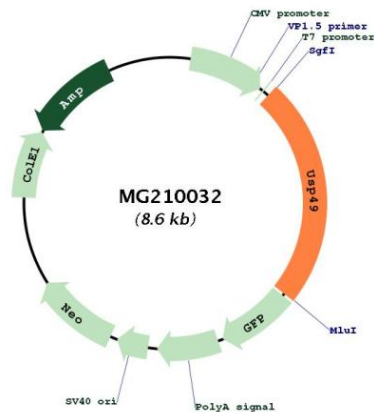
Locus ID: 224836

UniProt ID: [Q6P9L4](#)

Cytogenetics: 17 C

Gene Summary: Specifically deubiquitinates histone H2B at 'Lys-120' (H2BK120Ub). H2BK120Ub is a specific tag for epigenetic transcriptional activation and acts as a regulator of mRNA splicing. Deubiquitination is required for efficient cotranscriptional splicing of a large set of exons (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG210032