

Product datasheet for **RG204345**

USP49 (NM_018561) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP49 (NM_018561) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	USP49
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG204345 representing NM_018561
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATAGATGCAAACATGTAGGGCGTTACGGCTCGCCAGGACCACTCCATCCTGAACCTCAGAAGT
 GGTGCTGCTTAGAGTGTGCCACCAACCGAGTCCGTGTGGGCTGCCTCAAGTGCTCCACGTGGCCTGCGG
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 CTCTGTGGGTGGGGACACGGAAGGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG204345 representing NM_018561
 Red=Cloning site Green=Tags(s)

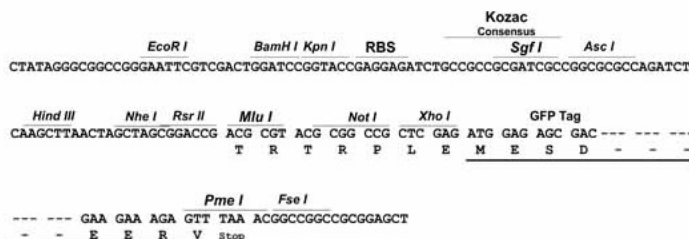
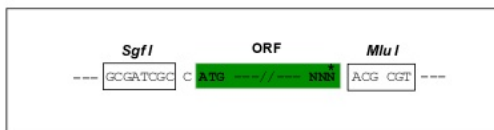
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 TRRILIPFSQRKLTQVLKVVNTIFHGQLLSQVTCISCNYSNTIEPFWDLSEFFPERYHCIEKGFVPLN
 QTECLLTEMKAFTEALEGRIYACDQNSKRRKSNPKPLVLSARKQLMIYRLPQVLRHLKRFVWSG
 RNHREKIGVHVVDQVLTMEPYCCRDMLSSLDKETFAFDLSAVVMHGHGKFGSGHYTAYCYNTEGGACAL
 LCGVGDTERG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_018561

ORF Size: 1920 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_018561.3](#), [NP_061031.2](#)

RefSeq Size: 3194 bp

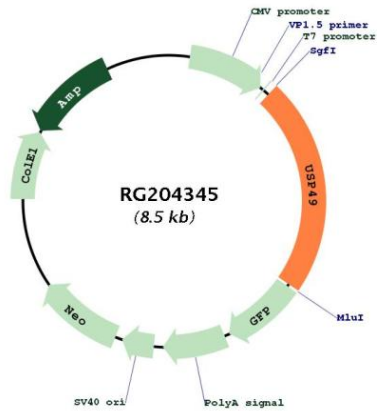
RefSeq ORF: 1923 bp

Locus ID: 25862

UniProt ID: [Q70CQ1](#)

Cytogenetics: 6p21.1
Domains: UCH, zf-UBP
Protein Families: Protease, Transcription Factors
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. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG204345