

Product datasheet for **RG222609**

USP16 (NM_006447) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP16 (NM_006447) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	USP16
Synonyms:	UBP-M; UBPM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG222609 representing NM_006447
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

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 GTTTGGCTGTGTCTTAAATGTGGCCATCAGGGCTGTGGCAGAAATTCAGGAGCAGCATGCCTTGAAGC
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ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

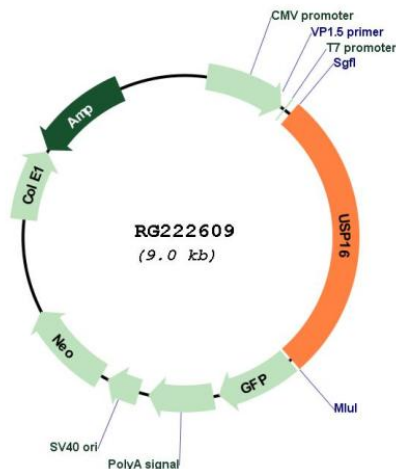
Protein Sequence: >RG222609 representing NM_006447
 Red=Cloning site Green=Tags(s)

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MGKKRTKGKTVPIDDSSETLEPVCRRHIRKGLEQGNLKKALVNVEWNICQDCKTDNKVKDKAEETEETEEKPS
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LFSQVCKKAVRFKGYQQQDSQELLRYLLDGMRAEEHQRVSKGILKAFGNSTEKLDEELKNKVKDYEKKKS
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_006447

ORF Size: 2469 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_006447.3](#)

RefSeq Size: 2989 bp

RefSeq ORF: 2472 bp

Locus ID: 10600

UniProt ID: [Q9Y5T5](#)

Cytogenetics: 21q21.3

Domains: UCH, zf-UBP

Protein Families: Protease

Gene Summary: This gene encodes a deubiquitinating enzyme that is phosphorylated at the onset of mitosis and then dephosphorylated at the metaphase/anaphase transition. It can deubiquitinate H2A, one of two major ubiquitinated proteins of chromatin, in vitro and a mutant form of the protein was shown to block cell division. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]