

Product datasheet for **RG220829**

USP16 (NM_001032410) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP16 (NM_001032410) 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:

>RG220829 representing NM_001032410
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGAAAGAAACGGACAAAGGGAAAACTGTTCCAATCGATGATTCCTCTGAAACTTTAGAACCTGTGT
GCAGACACATTAGAAAAGGATTGGAACAAGGTAATTTGAAAAAGCCTTTAGTGAATGTGGAATGGAATAT
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GTTTGGCTGTGTCTTAAATGTGGCCATCAGGGCTGTGGCAGAAATTCAGGAGCAGCATGCCTTGAAGC
ACTATCTGACGCCAAGATCTGAACCTCACTGTCTGTTCTTAGTTTGGCAACTGGAGTGTATGGTGTTA
CGTATGTGATAATGAGGTCCAGTATTGTAGTTCAAACCAGTTGGGTCAAGTGGTTGATTATGTCAGAAAA
CAAGCCAGCATTACAACCCAAAGCCAGCAGAGAAAGATAATGGAATATTGAACTTGAATAAAAAAT
TAGAAAAAGAGAGTAAGAATGAACAAGAGAGAGAAAAGAAGAAAACATGGCTAAAGAGAATCCTCCCAT
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CATCTCTAATCTTGTCTTACGGTGTATTCCACAAGATTTGAAATGGAATCAAAAGGGCAGTGGT
TTCACATCAGCGACACACATGTGCAAGCTGTGCCTACAACCTAAAGTACTAAACTACAAGCGTACCTCCT
ATTTTATGAGAGAATACTG

ACCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG220829 representing NM_001032410
 Red=Cloning site Green=Tags(s)

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MGKKRTKGKTVPIDDSSETLEPVCRRHIRKGLEQGNLKKALVNVEWNICQDCKTDNKVKDKAEETEETEEKPS
VWLCLKCGHQGCGRNSQEQHALKHYLTPRSEPHCLVLSLDNWSVWCYVCDNEVQYCSSNQLGQVVDYVRK
QASITTPKPAEKDNGNIELENKKLEKESKNEQEREKKENMAKENPPMNSPCQITVKGLSNLGNLTCFFNAV
MQNLSQTPVLRRELLKEVKMSGTIVKIEPPDLALTEPLEINLEPPGPLTLAMSQFLNEMQETKKGVVTPKE
LFSQVCKKAVRFKGYQQQDSQELLRYLLDGMRAEEHQRVSKGILKAFGNSTEKLEELKNKVKDYEKKKS
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Kozac Consensus

EcoRI BamHI KpnI RBS SgfI AscI

CTATAGGGCGGCGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGCGGCCAGATCT

HindIII NheI RsrII MluI NotI XhoI GFP Tag

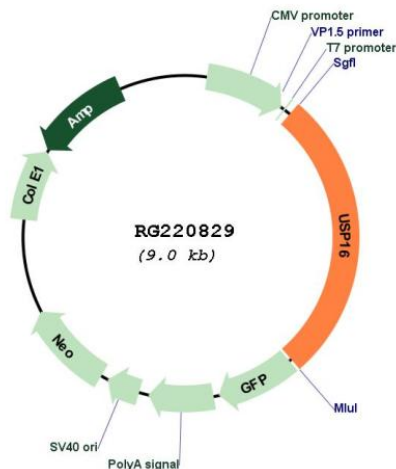
CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CCG CCG CTC GAG ATG GAG AGC GAC --- --- --- ---

T R T R P L E M E S D - - -

PmeI FseI

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGAGCT

- - E E R V Stop

Plasmid Map:


ACCN: NM_001032410

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_001032410.1](#), [NP_001027582.1](#)

RefSeq Size: 3052 bp

RefSeq ORF: 2472 bp

Locus ID: 10600

UniProt ID: [Q9Y5T5](#)

Cytogenetics: 21q21.3

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]