

Product datasheet for **RG225534**

USP46 (NM_001134223) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP46 (NM_001134223) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	USP46
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225534 representing NM_001134223 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATTGTTTTCAGGGCACCAATGCCTCTGCTCTGGAAAAGACATTGGTCCAGAGCAGTTTCCAATCA
ATGAACACTATTTCCGATTGGTCAATTTTGAAACACATGCTACTGTAACCCGTGCTTCAGGCATTGTA
CTTCTGCCGTCATTCCGGGAGAATGTGTTGGCATAACAAGGCCAGCAAAGAAGAAGGAAAACCTGCTG
ACGTGCCTGGCGGACCTTTCCACAGCATTGCCACACAGAAGAAGAAGGTTGGCGTCATCCCACCAAAGA
AGTTCATTTCAAGGCTGAGAAAAGAGAATGATCTCTTTGATAACTACATGCAGCAGGATGCTCATGAATT
TTTAAATTATTTGCTAAACACTATTGCGGACATCCTTCAGGAGGAGAAGAACAAGGAAAACAAAATGGA
AAATTAATAAATGGCAACATGAACGAACCTGCGGAAAATAATAAACAGAACTCACCTGGGTCCATGAGA
TTTTTCAGGGAACGCTTACCAATGAAACTCGATGCTTGAAGTGTGAAACTGTTAGTAGCAAAGATGAAGA
TTTTCTTGACCTTTCTGTTGATGTGGAGCAGAATACATCCATTACCCACTGTCTAAGAGACTTCAGCAAC
ACAGAAACTGTGTAGTGAACAAAATATTATTGTGAAACATGCTGCAGCAAACAAGAAGCCAGAAAA
GGATGAGGGTAAAAAGCTGCCCATGATCTTGGCCCTGCACCTAAAGCGGTTCAAGTACATGGAGCAGCT
GCACAGATACCCAAGCTGTCTTACCGTGGTCTTCCCTCTGGAACCTCCGGCTCTCAACACCTCCAGT
GATGCAGTGAACCTGGACCGCATGTATGACTTGGTTGCGGTGGTCTTCACTGTGGCAGTGGTCCTAATC
GTGGGCATTATCACTATTGTGAAAAGTACGGCTTCTGGCTTTTGTGTTGATGATGACATTGTAGAGAA
AATAGATGCTCAAGCTATTGAAGAATTCTATGGCTGACGTCAGATATATCAAAAATTCAGAATCTGGA
TATATTTATTCTATCAGTCAAGAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225534 representing NM_001134223
 Red=Cloning site Green=Tags(s)

MNCFQGTNASALEKDIGPEQFPINEHYFGLVNFNGNTCYCNSVLQALYFCRPFRENVLAYKAQQKKKENLL
 TCLADLFHSIATQKKKVGVIIPKKFISRLRKENDLFDNYMQQDAHEFLNYLLNTIADILQEKKQEKQNG
 KLKNGNMNEPAENNKPEL TWVHEIFQGTLTNETRCLNCETVSSKDEDFLDLSDVDEQNTSITHCLRDFSN
 TETLCSQKYYCETCCSKQEAQKRMRVKLLPMILALHLKRFKYMEQLHRYTKLSYRVVFPLELRLFTSS
 DAVNLD RMYDLVAVVVHCGSGPNRGHYITIVKSHGFLLFDDDI VEKIDAQAIIEFFYGLTSDISKNSESG
 YILFYQSRE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001134223

ORF Size: 1077 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_001134223.2](#)

RefSeq Size: 8057 bp

RefSeq ORF: 1080 bp

Locus ID: 64854

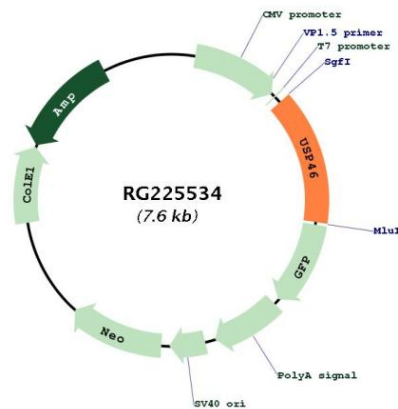
UniProt ID: [P62068](#)

Cytogenetics: 4q12

Protein Families: Druggable Genome, Protease

Gene Summary: Modification of cellular proteins by ubiquitin is an essential regulatory mechanism controlled by the coordinated action of multiple ubiquitin-conjugating and deubiquitinating enzymes. USP46 belongs to a large family of cysteine proteases that function as deubiquitinating enzymes (Quesada et al., 2004 [PubMed 14715245]).[supplied by OMIM, Jun 2009]

Product images:



Circular map for RG225534