

Product datasheet for **MG226440**

Usp48 (NM_130879) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp48 (NM_130879) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Usp48
Synonyms:	2810449C13Rik; AI115503; BC021769; D330022K21Rik; Usp31
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226440 representing NM_130879 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCCGCGGCTGCAGCTGGAGAAGGCGGCCTGGCGCTGGGCGGAGACGGTGC GGCCCGAGGAGGTGT
CGCAGGAGCACATCGAGACCGCCTACCGCATCTGGCTGGAGCCTTGTATCCGAGGCGTGTGCAGAAGAAA
CTGCAGAGGAAACCCGAATTGCTTGGTTGGCATTGGCGAGCACATTTGGTTAGGAGAGATAGATGAGAAT
AGTTTTCATAGCATTGATGATCCCAACTGTGAGAGGAGGAAAAAGAATTCCTTTGTGGCCTTGACTAAC
TGGGAGCCACCTGCTACGTCAACACCTTCTCCAGGTGTGGTTCCCTCAACTTGGAGCTTCGGCAGGCGCT
GTACTTATGCCCCAGCACCTGCAGTGATTACACGAAGGGAGATGGGATCCATGGGGGAAAAGATTATGAG
CCTCAGACAATTTGTGAGCATCTTCAGTACTTGTTTGCTTTGTTGCAAAAACAGTAACAGACGATACATCG
ATCCTTCAGGATTTGTTAAAGCCTTGGGCTTAGATACTGGGCGAGCAGCAGGATGCACAAGAGTTTCCAA
GCTCTTTATGTCGCTGTTGGAAGACACTTTGTCTAAACAGAAGAACCCGGATGTTTCGGAATGTTGTGCAG
CAGCAGTTCTGTGGAGAATATGCCTATGTGACTGTGTGCAATCAGTGTGGCCGAGAGTCTAAGCTTGTAT
CGAAGTTCTATGAACTGGAGTTAAACATCCAAGGCCACAAGCAGTTAACAGACTGCATCTCAGAGTTCT
GAAGGAAGAACGATTAGAAGGAGACAATCGATACTTCTGTGAAAACGTGTCAGAGCAAACAGAATGCTACA
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AAACTGGACACAAGAAGAAGCTCAATGCATACATCGGCTTCTCAGAGAGTCTAGATATGGAGCCTTACGT
GGAGCACAAAGGCGGTCCTTCGTGTACAGCTCAGTGCCTCCTCATCCACAGAGGAGTCAAGCCTAT
TCTGGCCACTACATCGCACACGTGAAAGACCTCAGTCTGGAGAATGGTACAAGTTCAATGACGAGGACA
TAGAGAAGATGGAGGGCAAGAAGCTACAGCTAGGGATTGAGGAAGATCTAGAACCTTCTAAATCCCAGAC
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GCACGAGGAGGTGAAGGAGCTGTACCAAGGTTGCTGCTGGAGCTGAGCCCTATGAGTTTGTCTCTCTT



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GAATGGCTGCAGAAGTGGTTGGACGAGTCAACACCCACCAACCGATTGATAATAATGCTTGCCTGTGTT
 CCCACGACAAGCTTCATCCTGATAAAAATATCAATTATGAAGAGAATATCGGAATATGCGGCTAACATTTT
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 CCACCTTGGTACCCTCGCGCTCATTCTGAGTCTGTCAATTTGTTAAAGGCTGATGAACCAATTGCAGA
 CTACGCTGCAATGGATGATGTCATGCAAGTTTGTATGCCGGAAGAGGGCTTAAAGGTACGGCCTGCTC
 GGACAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226440 representing NM_130879
 Red=Cloning site Green=Tags(s)

MAPRLQLEKAAWRWAETVRPEEVSQEHIEIETAYRIWLEPCIRGVCRRNCRGNPNCLVGIGEHILWGEIDEN
 SFHSIDDPNCERRKNSFVGLTNLGATCYVNTFLQVWFLNLELRQALYLCPSSTCSDYTKGDGIHGGKDYE
 PQTICEHLQYLFALLQNSNRRYIDPSGFVKALGLDTGQQQDAQEF SKLFMSLLEDTL SKQKNPDVRNVVQ
 QQFCGEYAYVTVCNQCGRRESKLVSKFYELNLNIQGHKQLTDCISEFLKEERLEGNRYFCENCQSKQAT
 RKIRLLSLPCTLNLQLMRFVFDRTGHKKLNAYIGFSESLDMEPYVEHKGGSFVYELSAVLIHRGVSAY
 SGHYIAHVKDPQSGEWYKFNDEIEKMEGKQLGLIEEDLEPSKSQTRPKCGKGTHTCSRNAYMLVYRLQ
 AQEKNHTMVQVPAFLQELVDRDNSKFEWCVEMAEMRKQSVDKGKAKHEEVKELYQRLPAGAEPYEFVSL
 EWLQKWLDESTPTKPIDNNAACLCSHDKLHPDKISIMKRISEYAANIFYSRYGPPRLTVKALCKDCVVER
 CRVLRLLKQLNEDYKAVNNLLKSTMKGDGFVWGKSSLRSWRQLALEQLDEQDGEAEQSNKINGSTFNKD
 ESKEEKKEEEEEELNFNEDILCPHGELSISENERRLVSQEAWSKLQYFPKAPFPSPYRECCSQCKILERE
 GEENEALHKMIANEQKTSPLNLFQDKNRPLSNWPEDTDALYIVSHFFLDEWRKFRKPARSAPVSSIGN
 AALLCPHGGLMFTFPSLTKEDSKLCQPLERREGWPTAAHNNIALIWPSEWQMIQKLFVVDKVIKITRIE
 VGDVNSQTYISEPSLCPDCREGLLCQQQRDLREYQTATYVHKVVDNKKVMKDSAPELNVSSSETEED
 KEEAKPDGEKDPDFNQSNGSTKRQKTSQQGYVAYQKQVIRRSTRHRKVRGEKALLV SANQTLKELKIQIM
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 GH

TRTRPLE - GFP Tag - V

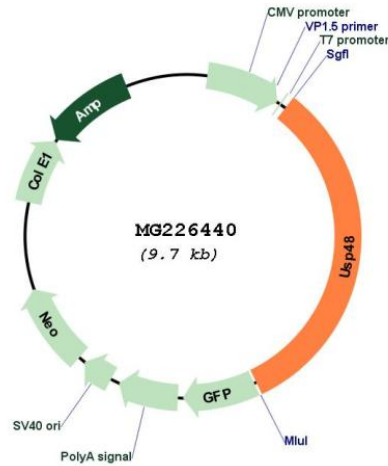
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_130879

ORF Size: 3156 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:	<ol style="list-style-type: none">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:	<u>NM_130879.3</u>
RefSeq Size:	5766 bp
RefSeq ORF:	3159 bp
Locus ID:	170707
UniProt ID:	<u>Q3V0C5</u>
Cytogenetics:	4 D3
Gene Summary:	Recognizes and hydrolyzes the peptide bond at the C-terminal Gly of ubiquitin. Involved in the processing of poly-ubiquitin precursors as well as that of ubiquitinated proteins. May be involved in the regulation of NF-kappa-B activation by TNF receptor superfamily via its interactions with RELA and TRAF2. May also play a regulatory role at postsynaptic sites (By similarity).[UniProtKB/Swiss-Prot Function]