

Product datasheet for **MG226508**

Usp46 (NM_177561) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp46 (NM_177561) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Usp46
Synonyms:	1190009E20Rik; 2410018I08Rik; AI451644
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226508 representing NM_177561 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTGTCCGAAACATCGCCTCCATCTGTAATATGGGCACCAATGCCTCTGCTCTGAAAAAGACATTG
GACCAGAGCAGTTCCGATCAATGAACACTACTCGGATTGGTCAATTTGGAAACACATGCTACTGTAA
CTCCGTGCTTCAAGCGCTGACTTCTGCCGGCCGTTCCGGGAGAATGTGTGGCATAACAAGGCCAGCAA
AAAAAGAAGAAAACCTGTTGACATGCCTGGCAGACCTTTCCACAGCATTGCCACGCAGAAGAAGAAGG
TTGGCGTCATCCCACAAAGAAGTTCATTTCAAGGCTGAGGAAAGAGAACGATCTCTTTGATAACTACAT
GCAGCAGGATGCTCACGAGTTCCTAAATATTTGCTAAACACTATTGCGGACATCCTGCAGGAAGAGAAG
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AACTCACCTGGGTCCACGAGATTTTTCAGGGAACACTCACTAACGAAACTCGATGCTTGAAGTGTGAAAC
TGTGAGTAGCAAAGATGAAGATTTTCTTGACCTCTCTGTCGATGTGGAACAGAACACCTCCATCACCCAC
TGTCTGAGAGACTTCAGCAACACAGAAACGCTGTGTAGTGAACAAAAATATTATTGTGAAACATGTTGCA
GCAAACAGGAGGCTCAGAAGAGGATGAGGGTAAAAAGCTGCCATGATTTTGGCCCTGCACCTCAAGAG
GTTCAAGTACATGGAACAGCTCCACAGGTACACCAAGCTGTCTTACCGGGTGGTCTTCCCTCTGGAACCT
CGGCTCTTCAACACCTCCAGCGATGCTGTGAACCTGGACCGCATGTATGACCTGGTTGCTGTGGTCTGTT
ACTGTGGAAGTGGTCTTAAACCGTGGGCATTACATCACCATCGTAAAAAGTCATGGCTTCTGGCTGTTGT
TGATGACGACATTGTAGAGAAAATAGACGCTCAAGCCATTGAGGAATTCTATGGTCTAACGTCAGATATA
TCAAAAAATTCAGAACTGGATATATTTTATTCTATCAATCAAGAGAA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226508 representing NM_177561
Red=Cloning site Green=Tags(s)

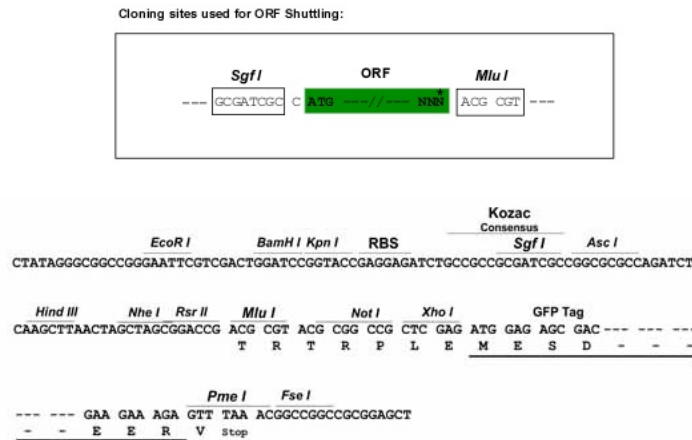
MTVRNIASICNMGTNASALEKDIGPEQFPINEHYFGLVNFNGNTCYCNSVLQALYFCRPFRENVLAYKAQQ
 KKKENLLTCLADLFHSHIATQKKKVGVIIPKFIISRLRKENDLFDNYMQQDAHEFLNYLLNTIADILQEEL
 KQEKQNGKLNKGNMNEPAENNKPEL TWVHEIFQGLTNETRCLNCETVSSKDEDFDLSDVDEQNTSITH
 CLRDFSNTETLCSEQKYCETCCSKQEAQKRMVKKLPMILALHLKRFKYMEQLHRYTKLSYRVVFPLEL
 RLFNTSSDAVNLDRMYDLVAVVVHCGSGPNRGHYITIVKSHGFLLFDDIVEKIDAQAIEEFYGLTSDI
 SKNSESGYILFYQSRE

TRTRPLE - GFP Tag - V

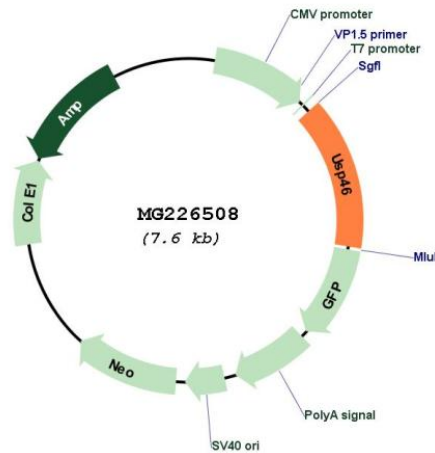
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_177561

ORF Size:	1098 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:	NM_177561.3 , NP_808229.1
RefSeq Size:	3225 bp
RefSeq ORF:	1101 bp
Locus ID:	69727
UniProt ID:	P62069
Cytogenetics:	5 C3.3
Gene Summary:	Deubiquitinating enzyme that plays a role in behavior, possibly by regulating GABA action. May act by mediating the deubiquitination of GAD1/GAD67 (PubMed:19465912). Has almost no deubiquitinating activity by itself and requires the interaction with WDR48 to have a high activity. Not involved in deubiquitination of monoubiquitinated FANCD2 (By similarity). [UniProtKB/Swiss-Prot Function]