

## Product datasheet for RN216490

### Usp46 (NM\_001191596) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Usp46 (NM_001191596) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Usp46
Synonyms:	RGD1564808
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN216490 representing NM_001191596 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTGTCCGAAACATCGCCTCCATCTGTAATATGGGCACCAATGCCTCTGCTCTGAAAAAGACATTG  
GACCAGAGCAGTTCCGATCAATGAACACTACTCGGATTGGTCAATTTGGGAACACATGCTACTGTAA  
CTCCGTGCTCCAAGCATTGACTTCTGCCGGCCGTTCCGGGAGAATGTGTGGCATAAAGGCCAGCAG  
AAAAAGAAGGAAAACCTGTTGACGTGCCTGGCAGACCTTTCCACAGCATTGCCACGCAGAAGAAGAAG  
TTGGCGTCATCCCACAAAGAAGTTCATTTCAAGGCTGAGGAAAGAGAACGATCTCTTTGATAACTACAT  
GCAGCAGGATGCTCATGAATTTTAAATATTTGCTAAACACTATTGCGGACATCCTGCAGGAAGAGAAG  
AAACAGGAAAAACAAAACGGGAAATTAATAATGGCAACATGAATGAGCCGGCAGAGAATAGTAAGCCAG  
AACTCACCTGGTCCACGAGATTTTTCAGGGAACACTCACTAACGAAACTCGATGCTTGAAGTGTGAAAC  
TGTGAGTAGCAAAGACGAAGATTTTCTTGACCTCTCTGTTGATGTGGAACAGAACACCTCCATCACCCAT  
TGTCTGAGAGACTTCAGCAACACAGAAACGCTGTGTAGTGAGCAAAAGTACTATTGTGAAACATGCTGCA  
GCAAACAGGAGGCTCAGAAGAGGATGAGGGTAAAAAGCTGCCATGATTTTGGCCCTGCACCTAAAGAG  
GTTCAAGTACATGGAGCAGCTCCACAGGTACACCAAGCTGTCTTACCAGGTTGGTCTTCCCTCTGGAGCTC  
CGGCTCTTCAACACCTCCAGCGATGCTGTCAACCTGGACCGCATGTATGACCTGGTTGCTGCTCGTCTGTT  
ACTGTGGAAGTGGTCTTAAACCGTGGCATTACATCACCATCGTGAAAAGTCATGGCTTTTGGCTATTGTT  
TGATGACGACATCGTAGAGAAAATAGATGCTCAAGCCATTGAGGAATTCTATGGTCTAACGTCAGACATA  
TCAAAAAATTCAGAACTGGATATATTTTATTCTATCAATCAAGAGAA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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<b>ACCN:</b>	NM_001191596
<b>Insert Size:</b>	1101 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001191596.1</a></u> , <u><a href="#">NP_001178525.1</a></u>
<b>RefSeq Size:</b>	4594 bp
<b>RefSeq ORF:</b>	1101 bp
<b>Locus ID:</b>	289584
<b>UniProt ID:</b>	<u><a href="#">F1M625</a></u>
<b>Cytogenetics:</b>	14p11
<b>Gene Summary:</b>	Deubiquitinating enzyme that plays a role in behavior, possibly by regulating GABA action. May act by mediating the deubiquitination of GAD1/GAD67 (By similarity). 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]