

## Product datasheet for **RR202621**

### Abhd10 (NM\_001123352) Rat Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Abhd10 (NM\_001123352) Rat Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Abhd10  
 Synonyms: RGD1308084  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 ORF Nucleotide Sequence: >RR202621 representing NM\_001123352  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGCCTGGGTACCTTGTCTGGAAGTGGGGCTGGGCGGCTGTGTCCTTCGGCCGGCACCGAGGCCTGA  
 TCGCGTCACTTGCTCGGAAGCCCCATGGGCATGGTGGCTCTCAGCTTGCAGACAAAAGACAACACTCTC  
 TTTCTTAAACGACCAGAACTTCCAAGCCTGGCTTATAAGAGGTTAAAGGGCAAAAACCCAGGAATTATC  
 TTCATCCCTGGTTATCTTTCTAACATGAATGGTAAAAAGGCAGTAGCGATTGAGGAGTTTTGCAAATCTA  
 TAGGTCACGCCTTTATCAGGTTTGACTACTCTGGGTTGGAAGCTCAGATGGTAACCTAGCAGAGTGCTC  
 AGTGGGAAGTGGAGAAAGGATGTTCTTCCATCCTTGATGATATAGCCGAAGGACCACAGATACTGGTT  
 GGATCCAGCCTTGGTGGATGGCTCATGCTGCATGCTGCAATTGCACGGCCAGAGAAGGTCATAGCTCTTA  
 TTGGGATAGCTTCTGCTACAGATGGAGTGGTGACACAGTTTCACTCACTTCCCCTTGAGATGCAAAAAGGA  
 AATAGAAATGAAAGGTGAATGGTCTTGCCATCAAATAACAACAAAGAAGGCTATTACAGCATTCCCTTAC  
 AGTTTCATTAAGAGGCGCGCATCACTGCTTGTACACAGCCCCATTCTGTGACGTGCCCTGTACGGT  
 TGCTCCACGGCATGAAGGACGAAATAGTTCCTTGGCACAGATCCCTGCAGGTTGCCGACCGAGTAGTCAG  
 CCCAGATGTGGATGTCATCCTCCGGAAGCACAGTGATCACAGGATGAAGGAGACAGCAGATATCCATCTG  
 CTTATCTGTAATGACTGACTTGATTGACAAGCTTTCAACTGTGACTCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR202621 representing NM\_001123352  
Red=Cloning site Green=Tags(s)

MAAWVPCRKWGAAVVSFGRHRGLIASLARKPPWAWWLSACRQKTTLSFLKRPELPSLAYKRLKGNPGII  
 FIPGYLSNMNGKKAVAIEEFCKSIGHAFIRFDYSGVSSDGNLAECVSGKWRKDVLSILDDIAEGPQILV  
 GSSLGGWMLHAAIARPEKVIALIGIASATDGVVTQFHSLPVEMQKEIEMKGEWLSPSKYNKEGYYSIPY  
 SFIKEAAHCLLHSPIPVTCVPRLLHGMKDEIVPWHRSQVADRVVSPDQVILRKHSDRMKETADIHL  
 LICTIDDLIDKLSTVTH

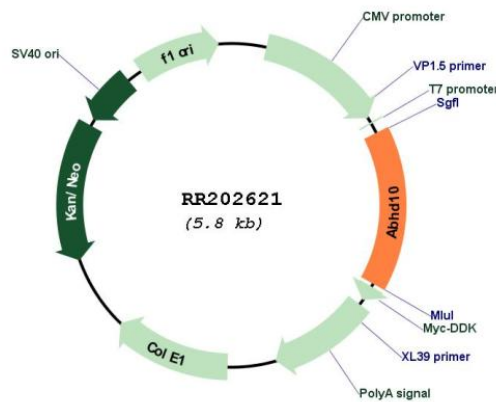
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001123352

**ORF Size:** 891 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001123352.1</a> , <a href="#">NP_001116824.1</a>
<b>RefSeq Size:</b>	1251 bp
<b>RefSeq ORF:</b>	894 bp
<b>Locus ID:</b>	303953
<b>UniProt ID:</b>	<a href="#">Q5I0K5</a>
<b>Cytogenetics:</b>	11q21
<b>MW:</b>	33.2 kDa
<b>Gene Summary:</b>	Acts as an acyl-protein thioesterase that hydrolyzes fatty acids from acylated residues in proteins. Regulates the mitochondrial S-depalmitoylation of the nucleophilic active site residue of peroxiredoxin-5/PRDX5, a key antioxidant protein, therefore modulating mitochondrial antioxidant ability. Also catalyzes the deglucuronidation of mycophenolic acid acyl-glucuronide, an active metabolite of the immunosuppressant drug mycophenolate. [UniProtKB/Swiss-Prot Function]