

## Product datasheet for RN216445

### Atp6ap2 (NM\_001007091) Rat Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Atp6ap2 (NM\_001007091) Rat Untagged Clone  
 Tag: Tag Free  
 Symbol: Atp6ap2  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Fully Sequenced ORF: >RN216445 representing NM\_001007091  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTGTGCTTGTCTCTCTCTCTCTCTGGTGTGCGAGTGCTTTAGCGAATGAATTTAGCATATTA  
 GATCGCCAGGGTCTGTTGTTTTCCGAAATGGAAATGGCCTATACCAGGAGATCGAATCCAGATGTAGC  
 TGCAGTGTCCATGGGCTTCTCTGTGAAGGAAGACCTGTCTGGCCAGGGCTTGTGTGGCAACCTATTC  
 CACCGCCCGGGCTACCATTATGGTGACAGTGAAGGGGTAGATAAACTGGCTCTCCACAGGCAGCG  
 TCATCTTACCCTTTGGAGAATGCAGTCCCTTTAGTCTTGACAGTGTGGCAATCCATTCACTCCTT  
 ATTTTCGAGGAGACTCCTGTAGTTTTGCAGTTGGCCCCAGTGAGGAAAGAGTGTATATGGTGGGAAA  
 GCAAACCTGTATTTGAAGACCTTTCAGTCACATTGCGTCAGCTCCGTAATCGCCTGTTTCAAGAAA  
 CTGTTCTCAACTCGCTCCCCCTCAATTCTCTGAGTAGGAATAATGAAGTTGACCTGCTATTTCTTCTGA  
 ACTGCAAGTGCTGCATGATATTTCAAGTTTGTGTCTCGTCATAAGCATCTCGCCAAGGATCATTCTCC  
 GACTTGTATTCAGTGGAGCTGGCAGTTTGGATGAGCTTGGGAAGCGTTATGGAGAAGACTCTGAACA  
 TCCGGGATGCTTCTCGGATCCTTGTGATGCTCTCCAAAAGTTTGCAGATGACATGTACAGTCTCTATGG  
 TGGGAATGCAGTGGTAGAGTTGGTACTGTCAAATCATTGCACACATCCCTGGTGGGAAGTCAAGGACC  
 ATCCTTGAGACGAAACAAGAGAACCCAAAGTCCCTACAACCTTGCATATAAGTATAATTTGGAGTATT  
 CGGTGTTTTCAACTTGGTACTGTGATTATGACTGGCTTGGCCTTGGCTGTGATATCACTCTTACAA  
 CATTTGGAATATGGATCCTGGATATGATAGCATCATTTATAGGATGACAAACCAGAAGATTCAATGGAT  
 TGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
 ACCN: NM\_001007091



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<b>Insert Size:</b>	1053 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_001007091.1</a></u> , <u><a href="#">NP_001007092.1</a></u>
<b>RefSeq Size:</b>	1170 bp
<b>RefSeq ORF:</b>	1053 bp
<b>Locus ID:</b>	302526
<b>UniProt ID:</b>	<u><a href="#">Q6AXS4</a></u>
<b>Cytogenetics:</b>	Xq12
<b>Gene Summary:</b>	Functions as a renin and prorenin cellular receptor. May mediate renin-dependent cellular responses by activating ERK1 and ERK2. By increasing the catalytic efficiency of renin in AGT/angiotensinogen conversion to angiotensin I, it may also play a role in the renin-angiotensin system (RAS) (By similarity).[UniProtKB/Swiss-Prot Function]