

## Product datasheet for **RN210390**

### **Atad3a (NM\_001034922) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Atad3a (NM_001034922) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Atad3a
Synonyms:	Atad3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN210390 representing NM\_001034922  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCGTGGCTCTTCGGCATCAAGGGCCCCAAGGGAGAAGGCACAGGGCCTCCGCTGCCCTTGCCGCCCC  
 CCCAACCTGGGGCGAAAGTGGCGGCGACCGTGGTGCGGGAGATCGGCCATCGCCCAAGGACAAATGGAG  
 CAACTTCGACCCGACGGGCTGGAGCGTGGCCAAAGCGGGCGCGAGTTGGAGCACTCGGCCATGCC  
 AAGGAGGCACTGAATCTTGCACAGATGCAGGAGCAGACTGCAGCTGGAACAACAGTCTAAGCTCAAGG  
 AATATGAAGCTGCCGTAGAGCAGCTGAAGAGCGAGCAGATCCGCGTGCAAGCCGAGGAAAGAAGGAAAC  
 CCTGAACGAAGAGACGGCGCAGCACCAGGCTAGGGCCAGTACCAGGATAAGCTAGCCCGACAACGCTAT  
 GAGGACCAGCTGAAACAACAGCAACTTCTGAATGAAGAGAATTTAAGGAAACAAGAGGAATCTGTGCAGA  
 AGCAGGAGGCCATACGGCGAGCCACTGTGGAGCGAGAGATGGAGCTGCGGCATAAGAATGAGATGTTGCC  
 GGTGGAAGCTGAGGCTCGAGCACGGGCCAAGGCCGATCGAGAGAATGCAGACATCATCCGGGAACAGATT  
 CGACTCAAGGCTGCTGAGCACCGCCAGACCATCTTGGAGTCTATCAGGACAGCCGGCACCTTGTTGGTG  
 AAGGATCCGTGCCTTTGTGACAGACTGGGACAAAGTGACAGCCACGGTGGCTGGATTGACACTATTAGC  
 TGTTGGAGTCTATTCTGCCAAGAACGCTACTTCTGTTGCTGGACGGTATATTGAGGCCGATTGGGAAAG  
 CCGTCCCTGGTGAGAGAGACCTCCCGTATCTCAGTGTGGAGGCATTGAGGCATCCCATCCAGGTCAGCA  
 GGCGGCTGGTCAGCAGACCCAGGATGCGTTGGAGGGCGTCATCCTCAGTCTAGCCTGGAGGCACGGGT  
 CCGAGATATTGCCATCGCAACAAGAAATACCAAGAAGAACAAAAGCCTGTACAGAAACGTTCTGATGAT  
 GGGCCACCAGGGACTGGCAAGACTATTTGCTAAGAACTCGCACTGCATTGAGGATGGACTACGCCA  
 TCATGACAGGCGGGGACGTGGCCCCATGGGGCGGGAGGGTGTGACTGCCATGCACAAGTCTTCGACTG  
 GGCAAGCACAGCAGACGAGGCCTCCTGCTCTTTGTGGATGAAGCAGATGCCTTCCAGGAAGCGAGCA  
 ACTGAAAAGATAAGTGAAGACCTCAGGGTACTCTGAATGCATTCTACAGGACAGGACAACACAGTA  
 ATAAGTTCATGCTGGTCTGGCCAGTAACCAGCCTGAGCAGTTCGATTGGGCCATCAATGACCGCATTGA  
 CGAGATGGTCTGCTTTGCCCTGCCACAGCGGGAGGAGCGGGAGCGCCTGGTGAGAATGTATTTGACAAG  
 TATGTCCTTAAGCCGGCCACAGAAGGAAAGCAACGCTTGAAGGTGGCCAGTTTGACTACGGAAAGAAGT  
 GCTCAGAGGTGCGCCAGCTGACGGCGGGAATGTCAGGCCGGGAGATAGCTCAGCTTGCCGTGGCATGGCA  
 GGCCATGGCATATTCGTCTGAGGATGGGGTCTCACGGAGGCTATGATGGATGCCCGTGTGAGGATGCT  
 GTCCAGCAGCACCAGCAGAAGATGCAGTGGCTTAAAGTAGAGAGACCTGACTCTGAGGCCAGCAAGCCAC  
 CACATCCGTCCTCCTCAGCTGC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001034922
- Insert Size:** 1776 bp
- OTI Disclaimer:** 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).
- 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:**

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\\_001034922.1](#), [NP\\_001030094.1](#)

**RefSeq Size:** 2416 bp

**RefSeq ORF:** 1776 bp

**Locus ID:** 298682

**UniProt ID:** [Q3KRE0](#)

**Cytogenetics:** 5q36

**Gene Summary:** Essential for mitochondrial network organization, mitochondrial metabolism and cell growth at organism and cellular level. May play an important role in mitochondrial protein synthesis. May also participate in mitochondrial DNA replication. May bind to mitochondrial DNA D-loops and contribute to nucleoid stability. Required for enhanced channeling of cholesterol for hormone-dependent steroidogenesis (By similarity).[UniProtKB/Swiss-Prot Function]