

## Product datasheet for **RR209183**

### **Atp5f1a (NM\_023093) Rat Tagged ORF Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | Atp5f1a (NM_023093) Rat Tagged ORF Clone |
| Tag:                      | Myc-DDK                                  |
| Symbol:                   | Atp5f1a                                  |
| Synonyms:                 | Atp5a1                                   |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-Entry (PS100001)                   |
| E. coli Selection:        | Kanamycin (25 ug/mL)                     |



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**ORF Nucleotide Sequence:**

>RR209183 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCTGTCCGTGCGCATCGCCGCGCCGTGGCCGTGCCCTCCCTCGACGGGCGGGACTGGTCTCCAAA  
 ATGCCTTGGGGTCATCTTTTGGTACAAGAAATCTCCATGCCTCTAACACTCGACTTCAGAAGACTGG  
 CACTGCCGAGATGTCTCCATTCTCGAGGAGCGGATCCTTGGAGCTGATACTTCTGTTGACCTTGAAGAG  
 ACTGGCCGTGTCTTAAGCATTGGTATGGTATTGCCCGAGTGCATGGACTGAGGAACGTTCAAGCTGAGG  
 AGATGGTAGAGTTTTCTCCGGCTTAAAGGGTATGTCCCTGAACTTGAACCCGACAATGTTGGAGTTGT  
 CGTGTGGGAATGACAAGCTAATTAAGAAGGTGATATCGTGAAGAGAACAGGAGCCATCGTGGACGTT  
 CCAGTTGGCGATGAACTGTTGGCCGTGTAGTTGATGCCCTGGGAAATGCCATTGATGGGAAGGGTCCAG  
 TTGGTTCCAAGATTCGCAGACGAGTGGCCTGAAAGCCCTGGAATTATCCCCGAATCTCTGTGCGGGA  
 ACCAATGCAGACGGGCATCAAGGCTGTGGATAGCCTGGTCCGATTGGCCGAGGTCAGCGTGAGCTGATT  
 ATTTGGAGACAGACAGCCGGGAAAACCTCGATTGCTATTGACACAATCATCAACCAGAAGCGTTTCAATG  
 ATGGGACTGACGAGAAGAAGAACTGTACTGCATCTACGTTGCTATTGGTCTAGAAAACGGTCCACCGTTGC  
 TCAGTTGGTGAAGAGACTGACAGACGCAGATGCCATGAAGTACACCATTGGTGTGAGCCACTGCCTCT  
 GATGCTGCCCCGTTCACTACTGGCTCCTTACTCCGGCTGCTCCATGGGAGAGTATTTCCGAGATAATG  
 GCAAGCACGCTCTGATCATCTATGACGACTTATCCAAGCAGGCTGTTGCTTACCGCCAGATGTCTCTGCT  
 GCTCCGCCGACCCCGGGTCGAGAGGCCATCCCGGTGATGTGTTTTACCTACACTCTCGCTGCTGGAG  
 AGAGCAGCCAAGATGAACGATTCCTTTGGTGGTGGCTTTTACTGCCTTACCAGTCATTGAAACACAGG  
 CTGGTGATGTCCGCTACATTCCAACAAACGTTATTTCCATCACCGATGGACAGATCTCTTGGAAAC  
 AGAATTGTTCTATAAAGGCATCCGCCCTGCCATTAATGTGGCTTGTCTGTGTCCCGTGTCCGATCTGCC  
 GCCCAGACCAGAGCCATGAAGCAGGTGGCAGGCCATGAAGCTGGAGTTGGCCAGTACCGGGAGGTGCG  
 CTGCTTTTGGCCAGTTGGTCTGATCTGGATGCTGCCACTCAGCAGCTTTGAGCCGTGGCGTGCAGCT  
 GACCGAGCTGCTAAAGCAAGGACAGTACTCTCCCATGGCTATTGAAGAACAGGTGGCTGTCATCTATGCA  
 GGCGTCCGGGTTATCTTGATAAAGTGGAGCCAGTAAGATCACAAAGTTCGAGAGTGTCTTTCTGTCTC  
 ATGTTGTGAGCCAGCACCAGAGCCTCTTGGCAATATCAGGTCTGATGGGAAAATCTCAGAACAGTCGGA  
 TGCAAAGCTGAAGGAAATCGTAACAACTCTTGGCTGGGTTTGAACCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR209183 protein sequence  
 Red=Cloning site Green=Tags(s)

MLSVRIAAVARALPRRAGLVSKNALGSSFVGRNLHASNTRLQKTGTAEMSSILEERILGADTSVDLEE  
 TGRVLSIGDGIARVHGLRNVQAEEMVEFSSGLKMSLNLEPDNVGVVVFNDKLIKEGDIVKRTGAIVDV  
 PVGDELLGRVVDALGNAIDGKGPVGSKIRRRVGLKAPGIIPRISVREPMQTGIKAVDSLVIIGRQRELI  
 IGDRQTGKTSIAIDTIIINQKRFNDGTDEKKLYCIYVAIGQKRSTVAQLVKRLTDADAMKYTIVVSATAS  
 DAAPLQYLAPYSGCSMGEYFRDNGKHALIIYDDLKQAVAYRQMSLLRRPPGREAYPGDVFLHSRLLE  
 RAAKMNSFSGGSLTALPVIETQAGDVSAYIPTNVISITDQIFLETIFYKIRPAINVGLSVSRVGS  
 AQTRAMKQVAGTMKLELAQYREVAFAQFGSDLDAATQQLSRGVRLTELLKQGQYSPMAIEEQVAVIYA  
 GVRGYLDKLEPSKITKFESAFLSHVVSQHQSLLGNIRSDGKISEQSDAKLKEIVTNFLAGFEP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

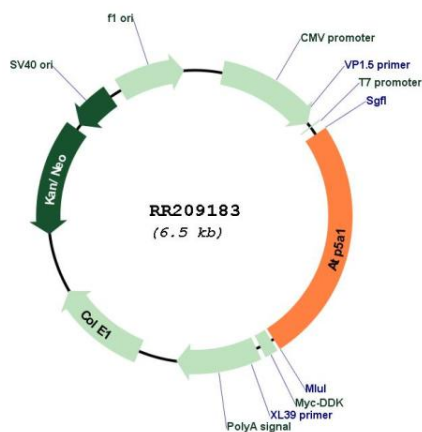
- ACCN:** NM\_023093
- ORF Size:** 1659 bp
- OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each 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:**
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\\_023093.1](#), [NP\\_075581.1](#)
- RefSeq Size:** 1871 bp
- RefSeq ORF:** 1662 bp
- Locus ID:** 65262
- UniProt ID:** [P15999](#)

**Cytogenetics:** 18q12.3

**MW:** 59.8 kDa

**Gene Summary:** mediates production of the majority of cellular ATP; binds ATP and ADP [RGD, Feb 2006]

**Product images:**



Circular map for RR209183