

## Product datasheet for **RR201124**

### **Atp5f1b (NM\_134364) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Atp5f1b (NM_134364) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp5f1b
Synonyms:	Atp5b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR201124 representing NM\_134364  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTGAGTCTTGTGGGCGTGTGGCCTCGGCCTCGGCCTCCGGGCCTTACGGGGACTCAACCCTTTGG  
 CGGCGCTGCCACAGGCGCATCTTCTACTACGAACCGCTCCCGCCGGGTCCATCCTGCCAGAGACTATGC  
 GGCGCAGTCGCTGCGGCCCGAAGGCAGGCACCGCCACCGGGCAAATTGTGGCAGTCATCGGCGCCGTT  
 GTGGATGTCCAGTTCGATGAGGGATTACCACCTATCCTAAATGCCTTGGAAAGTGAAGGCAGGGAGAGCA  
 GACTGGTTTTGGAGGTAGCCAGCATTTAGGGGAGAGCACCGTCAGAACTATTGCTATGGATGGCACTGA  
 AGGCTTGGTTAGAGGCCAGAAAGTACTGGATTCCGGGGCACCAATCAAAATTCCTGTTGGTCTGAGACC  
 TTGGGCAGAATCATGAATGTCATTGGAGAACCTATTGATGAGAGAGGTCTATCAAAACCAACAATTTCG  
 CTCCTATTCATGCTGAGGCTCCTGAATTCATAGAGATGAGTGTTGAACAGGAAATTCGGTACTGGTAT  
 AAAGTTGTGGATCTGCTGGCCCATACGCCAAGGGTGGGAAATCGGACTCTTCGGAGGTGCTGGTGT  
 GGAAAGACAGTACTGATCATGGAGCTAATCAACAATGTTGCTAAAGCCCATGGTGGTTATTCTGTATTTG  
 CTGGTGTGGTGAGAGGACCCGTGAGGGCAATGATTTATACCATGAAATGATTGAGTCTGGTGTATCAA  
 CCTAAAAGATGCCACTTCCAAGGTAGCGTTGGTATATGGGCAGATGAATGAACCGCTGGTCTCGTGCC  
 CGGGTAGCTCTGACTGGTCTGACTGTTGCTGAATACTTCAGAGACCAGGAAGGCCAAGATGTCCTGCTGT  
 TTATTGACAACATCTTCCGCTTACCCAGGCTGGCTCAGAGGTATCTGCCTTATTGGGCAGGATCCCCTC  
 TGCTGTAGGCTACCAGCTACCCTAGCCACTGACATGGGTACAATGCAGGAAAGAATCACCACCACAAG  
 AAGGGCTCGATCACCTCAGTGCAGGCTATCTATGTGCCAGCTGATGACCTGACTGACCCTGCCCTGCAA  
 CTACCTTTGCCATTTGGATGCTACTACTGTGCTCCCGTGTATTGCTGAGTTGGGCATATCCAGC  
 TGTGGATCCACTGGACTCCACTCTCGAATTATGGATCCCAACATCGTTGGCAGTGAGCATTATGATGTT  
 GCTCGTGGGTGCAAAAGATCCTGCAGGACTACAATCTCTCCAGGACATCATTGCCATCTTGGGTATGG  
 ATGAACTTTCTGAGGAAGATAAATTGACTGTGTCCAGGGCAAGGAAGATACAGCGCTTCTTGTACAGCC  
 ATTCCAGGTTGCTGAGGTCTTACAGGTCACATGGGAAAGCTGGTCCCCCTGAAGGAGACCATTAAAGGA  
 TTCCAGCAGATCTTAGCAGGTGACTATGACCATCTCCCGAACAAGCCTTCTACATGGTGGGACCCATTG  
 AAGAAGCTGTGGCAAAGGCTGACAAGCTGGCAGAGGAGCATGGGTCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR201124 representing NM\_134364  
 Red=Cloning site Green=Tags(s)

MLSLVGRVASASGALRGLNPLAALPQAHLLRTAPAGVHPARDYAAQSSAAPKAGTATGQIVAVIGAV  
 VDVFDEGLPPIILNALEVQGRESRLVLEVAQHLGESTVRTIAMDGTEGLVRGQKVLDSGAPIKIPVGPET  
 LGRIMNVIGEPIDERGPIKTKQFAPIHAEPEFIEMSVEQEILVTGIKVDLLAPYAKGGKIGLFGGAGV  
 GKTVLIMELINNVAKAHGGYSVFAGVGERTREGNDLYHEMIESGVINLKDATSKVALVYGMNEPPGARA  
 RVALTGLTVAEYFRDQEGQDVLFFIDNIFRFTQAGSEVSALLGRIPSAVGYQPTLATDMGTMQERITTK  
 KGSITSVQAIYVPADDLTDPAATTF AHLDATTVL SRAIAELGIYPAVDPLDSTSRI MDPNIVGSEHYDV  
 ARGVQKILQDYKSLQDIIAILGMDLSEEDKLTYSRARKIQRFLSQPFQVAEVFTGHMGLVPLKETIKG  
 FQQILAGDYDHLPEQAFYMGPIEEAVAKADKLAEEHGS

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

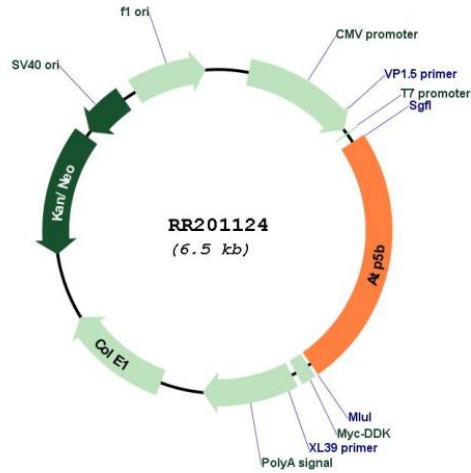
Cloning Scheme:

Cloning sites used for ORF Shuttling:



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

Plasmid Map:



<b>ACCN:</b>	NM_134364
<b>ORF Size:</b>	1587 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_134364.1</a> , <a href="#">NP_599191.1</a>
<b>RefSeq Size:</b>	1759 bp
<b>RefSeq ORF:</b>	1590 bp
<b>Locus ID:</b>	171374
<b>UniProt ID:</b>	<a href="#">P10719</a>
<b>Cytogenetics:</b>	7q11
<b>MW:</b>	56.4 kDa
<b>Gene Summary:</b>	beta subunit of rat liver ATP synthase [RGD, Feb 2006]