

## Product datasheet for **RN205188**

### **Abcb8 (NM\_001007796) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Abcb8 (NM_001007796) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Abcb8
Synonyms:	MGC93731
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN205188 representing NM\_001007796  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTGGTGCCTTATTTCCGGTCCGAATTCGGGTGGCCAGTTCGAAGATGGTCGCTACAATCCCTGC  
 GCTTCCAGACGTTCTCAGCCGCCAGGTCCTCAGATGACCAAGTTCAGCTCATGCCTCCTGCGGGCTGTAGC  
 CCAGCTCCGGTCACTCAACTCCGCGCTCACCTCCCTCGATCCCCACCAGTTCACACCGGAGTACCTCTGCC  
 TGGTGTGGGTTGGGGGACTTTGGTGGTCCCCGCTGTGCTGTGGCAGCATCCCCGTTTCTGCCTATAG  
 CACTATGTGAGGCCAAAGGGTCCCTCCTGCCAGCCACACGTGCCGGGAGCTGCGCTTAAAGTGAA  
 GCTATTCTGGCATTTCCTCACCCACCTGCTGGCCCTGGGGCTAGCCATTGTGCTGCGCTTGGGTGCG  
 GCACTAGTGAATGTGCAGATCCCCTTGCTCCTCGGCCAACTGGTGGAGATCGTCGCCAAGTACACGAGGG  
 AGCATGTGGGAGTTTCGTGTCTGAGTCCCGTAGGCTCAGTATCCAGCTGCTCCTACTCTATGGTGTCA  
 GGGACTACTGACCTTTGGATACCTAGTGTGCTGTCCACATGGGTGAGCGCATGGCCATGGACATCGCG  
 AAAGCCCTTTTACAGTCCCTGCTCCGGCAAGACATTGCTTTCTTTGATGCCAAAAAGACAGGGCAGCTAG  
 TGAGCCGCTTGACTACTGATGTGCAAGAGTTCAAGTCATCCTTCAAGCTTGTATCTCCAGGGACTGCG  
 CAGCTCCACCCAGGTGATCGGTAGCCTGATGACCTGTCTATTCTGTCCCGCGCCTTACACTGATGCTG  
 GCTGTTGTACACCTGCCCTCATGGGAGTGGGCACCCTGATGGGCTCAGGCCTCCGAAAGCTTCTCGAC  
 AGTGTCCAGGAGCAGATTGCCAGGGCGACAGGTGTAGCAGACGAGGCCCTTGGCAGTGTTCGGACTGTTCC  
 GGCCTTCGCAATGGAGAAGAGGGAGGAGAACGCTATCAAGCAGAAGTGGAGTGTGCTGCTGTAAGCA  
 GAGGAGCTGGGCAGGGGCATCGCCTTGTCCAGGGGCTCTCAAACATCGCTTCAACTGTATGGTCTTGG  
 GCACCCTGTTTATTGGAGGCTCCCTTGTGGCTGGACAGCAGCTGAAAGGGGGAGACCTCATGCTCCTCT  
 GGTGGCTTCCAGACAGTACAGAGGTCTATGGCCAGCCTCTCTGCTGTTTGGTCAAGTGGTGGCTGGG  
 CTGAGTGCAGGAGCCGAGTCTTTGAGTACATGTCCCTGAGCCCCGTATCCCCCTTGACCGGGGCTACT  
 CTATCCCCAGCAAGGACCTTCGTGGTCTATCACCTTCCAGAATGTGAGTTCAGCTACCCCTGCCGACC  
 TGGCTTCAATGTGCTCAAGAAGTTCACCCTGAAGTGCCTCCCTGGCAAGATTGTGGCTCTCGTTGGCCAG  
 TCTGGGGAGGAAAGACCACAGTTGCTTCCCTGCTGGAACGCTTCTATGACCCACAGCTGGCGTGGTGA  
 CGCTGGATGGGCATGACCTGCGTACTCTGACCCCTCCTGGCTCCGGGGCCAGGTCATAGGTTTCATCAG  
 CCAGGAGCCAGTCTGTTTGAACAACCATCATGGAGAATATCCGATTTGGGAAGCTAGATGCTTCCGAT  
 GAAGAGGTGTATACAGCTGCACGAAAGCCAATGCCACGAGTTCATCAGCAGCTTCCCTGATGGCTACA  
 GCACTGTGGTGGTGAACGGGGCACAACCTTGTCCGGTGGTCAAGAGCAGCGCCTAGCCATCGCAGGTGC  
 CCTCATCAAGAGGCCACAGTGTGATCCTGGATGAAGCCACCAGTGCCTGGACGCAGAGTCTGAGAGG  
 ATAGTACAGGAGGCACTGGACCGGGCCAGTGTGGTCCGACCGTGTGGTTCATTGCCACCGGCTCAGTA  
 CTGTTCTGTGCCGCCACTCCATCATCGTCATGGCCAATGGCCAAGTCTGTGAGGCTGGGACCCACGAAGA  
 ACTCCTTCAAAAAGGCGGGCTCTACGCAGAGCTTATCCGGAGACAAGCCCTGGATGCCTCACTGCCCTCA  
 GCCCCACTGCAGAGAAGCCTGAAGACCACAGAAGCTGCCAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001007796  
**Insert Size:** 2145 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).

<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_001007796.1</a></u> , <u><a href="#">NP_001007797.1</a></u>
<b>RefSeq Size:</b>	2145 bp
<b>RefSeq ORF:</b>	2145 bp
<b>Locus ID:</b>	362302
<b>UniProt ID:</b>	<u><a href="#">Q5RKI8</a></u>
<b>Cytogenetics:</b>	4q11
<b>Gene Summary:</b>	ATP-binding subunit of the mitochondrial potassium channel located in the mitochondrial inner membrane. Together with CCDC51/MITOK, forms a protein complex localized in the mitochondria that mediates ATP-dependent potassium currents across the inner membrane (that is, mitoK(ATP) channel) (By similarity). Plays a role in mitochondrial iron transport. Required for maintenance of normal cardiac function, possibly by influencing mitochondrial iron export and regulating the maturation of cytosolic iron sulfur cluster-containing enzymes (By similarity).[UniProtKB/Swiss-Prot Function]