

Product datasheet for **MC203835**

Abcb8 (NM_029020) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abcb8 (NM_029020) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Abcb8
Synonyms:	4833412N02Rik; AA409895
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC015301
AAGGATGGGAGCATAGAGATTGTCTGGAACAACCTCTAGAGAAAGGGCTCAAGGTGAGAAGCGCCAGGACG
TCCTCTAATGTGAGAATGAACGTCGCACAACCTCTGACCCGCACCTGACTTCAGGCCACTGAGCAAAATAG
CTAGAGCTGCTTCTGCTCGGTCCCGCCTACAGCCAACATTTTATCCAATCACAGCTTGCAGCAAGACTGA
TGTGCTTTTTCTCCAATCATCGCTGAGAATGGGAAGGGTTGTGGGATGGGGCCATAGCGAACATGGAA
CCCTCGGTAGGATAAGTGTGAGATTGCCGTTGCTGGCTGCCCTATCTTATTGCCTCAACATGTTGGTGC
ACTTATTTCCGGTTCGGAATCCGGGGTGGCCAGTTCAGGATGGTTCGCTACAATCCCTGCCCTCCAGAC
GTTCTCTGCCCGCAGGTCCTCAGATGACCGGCTCAGCTCACACCTCCTGCGGACTGTAGCCAGCTCCGT
GTACAGCTCCGGGCTCACCTCCCTCGAGCCCCACAGCTTCCCACTGGAGCCCTCTGCCTGGTGTGGG
TTGGGGGACCTTGGTGGTCCCTGCAGTCTGTGGCAGCATCCACGCCTCTGCCTTATAGCACTATGTGA
GGCCAAAGAGTCCCCTCTGCCAGCCACACGTGCCAGAGCTGCGCTTAAATGGAAGCTCTTCTGG
CATTTCTTACCCCCACCTGCTGGCCTGGGGGAGCCATTGTGCTGGCCTTAGGTGCGGCACTAGTGA
ATGTGCAGATCCCCTTGTCTGGGCCAGCTGGTGGAGATTGTCGCAAGTACACGAGGGACCACATGGG
GAGTTTCGTGCTGAGTCCCGTAAGCTCAGCGTCCAGCTGCTCCTACTGTACGGTGTTCAGGGACTGCTG
ACCTTTGGATACCTAGTGTCTGTCCACATTGGTGAGCGCATGGCCATGGACATGCGGAAAGCCCTTT
TCAGCTCCCTGCTCCGGCAAGACATTGCTTTCTTTGATGCCAAAAGACAGGGCAGCTAGTGAGTGCCTT
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CAGGTGATTGGTAGCCTGGTGTCCCTGTCTATGCTGTCCCTCGCCTTACCCTGATGCTGGCTGTGCTCA
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GCAGATTGCCAGGGCAACAGGTGTAGCAGATGAGGCCCTTGGCAATGTTCCGACTGTGCGGGCCTTCGCG
ATGGAGAAGAGGGAGGAGAACGCTATCAAGCAGAAGTGGAGTGTCTGCTGTAAGCAGAAGAAGTGG
GCAGGGGCATCGCTTGTCCAAGGGCTCTCAACATCGCTTCAACTGTATGGTCTTGGCACCCTGTT
CATTGGGGCTCCCTTGTGGCTGGACAGCTGAAAGGGGAGACCTCATGCTTCCCTGGTGGCTTCC
CAGACAGTACAGAGGTCTATGGCCAGCCTCTGTCTGTTGGTCAAGTGGTACGTGGGCTGAGTGGCG
GAGCCCGAGTCTTCAATACATGGCCCTGAGCCCTGTCTATCCATTGACCGGGGCTACTGCATCCCCAA
CAAGGACATTCGTGGTCCATCACCTTCCAAAATGTCACCTTCAAGTACCCTGCAGACCTGGCTTCAAT
GTGCTCAAGGACTTACCCTGAAGCTGCCCTCTGGCAAGATTGTGGCTCTTGTGGCCAGTCTGGGGGAG
GAAAGACCACAGTTGCCTCCTTGTGGAACGCTTCTATGACCCTGAAGCTGGCTCGGTGACGTTGGATGG
GCATGACCTGCGAACTCTCAACCCCTCCTGGCTCCGGGGCCAGGTATAGGTTTCATCAGCCAGGAGCCA
GTCCTGTTTGAACAACCATCATGGAGAATATCCGATTTGGGAAGCTGGATGCTTCCGATGAAGAGGTGT
ACACAGCTGCACGAGAAGCCAATGCCACGAGTTCATCAGCAGCTTCCCCGATGGCTACAGCACTGTGGT
TGGTGAGCGGGGACAACCTTGTCTGGTGGCCAGAAGCAGCGCCTAGCCATCGCAGCTGCCCTCATCAAG
CAGCCCCAAGTGTGATCCTGGACGAGGCCACAGTGCCTAGATGCAGAATCCGAGAGGGTGGTACAGG
AGGCCCTGGACCGGGCCAGTGTGGCCGCACCGTGTGGTTCATTGCCACCGGCTTAGTACTGTCCGTGC
AGCCCACTCCATCATTGTGATGGCAATGGCAAGTCTGTGAGGCTGGGACCCACGAAGAAGTCTTAA
AAAGGCGGGCTCTATTGAGGCTTATCCGGAGACAAACCTGGACGCCTCACTGACCTCAACCCCTCCTG
CAGAGAAGCCTGAAGACCCAAAAGCTGCCAGTCCAAAGCCTGAGAGGCCCTGGGGTCAAGTCACTGC
AAGACATCAGTCTGAGGCTGGAGCTCTGCTGGGACAGAGCCCTTGAAGGCCAGTGTGCTGGAGTGTGG
CCTGCACTACTGCCCCCTTAAAGGAGCTGGGCTCAACAGCTGGGGTGGGAAATGGCTCTCCGCCACCTG
CTTGACCATCCTGACTCAGCTCTGTGGTACGGGATGTACACAGTGAAGACAGAGTCCCTGGACACCTCT
GCTTGACCTCTCAGGCTGGCCTGGTCTGCCAACACTCAGTTGTTTGGCCCTCACTCCAGGAGACTG
GCCAGGCTGGTAGAATGGGTTGTAATCCAGCACTTGGGAGACAGAAGTGGGAGGGTCAAGAGTTCAAG
GCCATCTGGGCTAAATAGTGAACCTCTCTCAACAAAAGAAAACCTAAATAAAGAGGAAAAATTTT
CAAAGAGAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_029020
Insert Size: 2154 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:	<ol style="list-style-type: none">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:	BC015301 , AAH15301
RefSeq Size:	2962 bp
RefSeq ORF:	2154 bp
Locus ID:	74610
UniProt ID:	Q9CXI4
Cytogenetics:	5 A3
Gene Summary:	ATP-binding subunit of the mitochondrial potassium channel located in the mitochondrial inner membrane (By similarity). 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 (PubMed:22375032). Required for maintenance of normal cardiac function, possibly by influencing mitochondrial iron export and regulating the maturation of cytosolic iron sulfur cluster-containing enzymes (PubMed:22375032).[UniProtKB/Swiss-Prot Function]