

## Product datasheet for **MR210225**

### **Abcb10 (NM\_019552) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Abcb10 (NM_019552) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Abcb10
Synonyms:	ABC-m; Abc-me; Abcb12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR210225 representing NM\_019552  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGCGCCCTTCTGCTAGGGCGCTACTGCTGATTCCGCGTCGGGGCCCTGCCGTGCGAGCGTGGGCC  
 CGGCCGTCTCCTCTCGGATATGGCTGGCTTCTGAATGGACCCCGCTCGTACGCGCGTGGACCTCTCTGAT  
 CCACAAGCCGGTTCTGGGCTCCGCTTTCCCGCGCCCTATCCGGGCTGCCTGGCGGCGTGGGGCAGTGG  
 GCCACCTCTCGGGGGCCCGCAGGTGCTGGGTGCTGCGAGGACCCCGCGCCGACATCCCCTGTTGCGCA  
 GGCTCCAGGGTGCAGCTGCCACCGGTGTGCGAGACCTTGGGAACGACTCGCAGCGCGTCCCGCGGCGAC  
 CGGGCGCTCAGAAGTATGGAAGCTCTAGGGCTGGTGCGCCCGAGCGGGGAGACTGTCAGCTGCAGTT  
 GGGTTTCTGGCTGTGTCCAGTGTATCACCATGTCTGCCCTTCTTCTGGGAAGGATCATTGATGTCA  
 TCTATACCAACCAAGCGAGGGCTATGGCGATAGCTTGACTCGGCTCTGTGCTGTGCTCACCTGTGTGT  
 CCTGTGCGGCGCTGCTGCCAACGGCATTGTGTCTACCTCATGCAGTCTTCAGGTGAGAGCATTGTGAAC  
 AGGCTGCGCACCTCTCTGTTCTCCTCCATTCTAAGGCAAGAGGTTGCTTTCTTTGACAAGACCCGACAG  
 GCGAATTAATTAACCGCCTCTCCTCGGATACCGCACTCCTGGGGCGCTCCGTGACTGAGAACCTCTCCGA  
 TGGCCTGAGAGCTGGGGCCAGGCCTCCGTTGGTGTGGCATGATGTTTTTGTGTACCAAGTCTGGCC  
 ACCTTTGTTCTGAGTGTGGTACCGCCATCTCTGTCTCGCTGTGATTTATGGGCGATATCTACGGAAAC  
 TGTCCAAGCCACACAGGACTCCTTGGCAGAAGCCACACAGCTAGCCGAGGAGCGGATTGGAAACATAAG  
 AACCATCCGAGCTTTTGGGAAGGAGATGACGGAAGTGGAGAAGTACACCGGCCGAGTGGACCAGTTGCTG  
 CAGCTGGCACAGAAGGAGCCTTGGCACGAGCCGGCTTCTTTGGAGCAGCTGGGCTCTCAGGAAACCTGA  
 TTGTGCTGTCTGTCTGTACAAAGGAGGCTGCTGATGGGCACTGCCCATATGACAGTGGGCGAGCTCTC  
 TTCCTTCTCATGTACGCTTTCTGGGTTGGATTGAGCATCGGAGGACTGAGTTTATTCTACTCCGAGCTG  
 ATGAAAGGCTGGGTGCTGGTGGGCGGCTCTGGGAGCTGCTGGAGAGACGCCACGGCTGCCTTTTAACG  
 AGGGGATGGTGTAGATGAGAAAACCTTCCAGGGTCCCTGGAGTTCAGAAAACGTGCACTTCACATACCC  
 TGCTCGCCAGAGGTGTCGATATCCAGGATTTTCAGTCTTTCCATCCCATCTGGATCTGTACAGCGCTG  
 GTTGGCCCAAGTGGTCTGGGAAATCAACAGTGGTTTCGCTCCTGCTGCGGTTGTACGACCTAATTCTG  
 GAACAGTCAGCCTTGTGGCCATGACATTCGTGAGCTAAACCCGCTGGCTGAGATCCAAGATTGGGAC  
 AGTGAGTCAGGAGCCAGTCTGTTCTCCTGCTGTGCTGAGAACATTGCCTATGGAGCTGACAACTC  
 TCCTCGTCCAGCCCAGCAGGTGGAGAGGGCCGAGAGGTGGCCAACCGCGCTGAGTTTATCCGAAGCT  
 TCCACAGGGCTTCGACACTGTGGTCCGGGAGAAGGGCATCCTCCTGTCAGGTGGGCGAGAAGCAGAGGAT  
 TGCAATAGCCAGAGCCCTGCTGAAGAACCCAAAATTCTTCTCCTTGATGAAGCAACCAAGTGCAGTGGAT  
 GCCGAAAATGAGCACCTGGTCCAGGAGGCCCTTGACCGGCTGATGGAAGGGAGAACCCTGCTGATCATAG  
 CCCACCGCTGTCCACATTAAGAATGCCAACTTTGTTGCTGTCTTGACCACGGAAGATCTGTGAACA  
 CGGGACACATGAAGAGCTGCTCCTGAAGCCCAATGGGCTTTACAGAAAACCTGATGAACAAGCAGAGTTTC  
 CTGTCATATAATGGAGCAGAGCAGTTCTTGAACCTGCACGGGCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210225 representing NM\_019552  
Red=Cloning site Green=Tags(s)

```
MRAPSARALLLIPRRGPAVRAWAPAVSSRIWLASEWTPLVRAWTSLIHKPGSGLRFPAPLSGLPGGVGQW
ATSSGARRCWLAGPRAAHPLFARLQGAATGVRDLGNDSQRRPAATGRSEVWKLGLVRPERGRLSAAV
GFLAVSSVITMSAPFFLGRIDVITYTNPSEGYGDSLTRLCAVLTCVFLCGAAANGIRVYLMQSSGQSIWN
RLRTSLFSSILRQEVAFDFKTRTGELINRLSSDTALLGRSVTENLSDGLRAGAQAASVGVGMFFVSPSLA
TFVLSVVPPIISVLAVIYGRYLRLKLSKATQDSLAEATQLAEERIGNIRTIRAFGKEMTEVEKYTGRVDQLL
QLAQKEALARAGFFGAAGLSGNLIVLSVLYKGGLLMGS AHMTVGELSSFLMYAFVWGLSIGLSSFYSEL
MKGLGAGGRLWELLERQPRLPFNEGMVLDEKTFQGALEFRNVHFTYPARPEVSFVQDFSLSPSGSVTAL
VGPSGSGKSTVVSLLRLYDPNSGTVSLDGHDIRQLNPVWLRSKIGTVSQEPVLFSCSVAENIAYGADNL
SSVTAQQVERAAEVANAAEFIRSFQGFDTVVGEKGI LSGGQKQRIAIARALLKNPKILLLDEATSALD
AENEHLVQEALDRLMEGRVLI IAHLRSTIKNANFVAVLDHGKICEHGTHEELLKPNGLYRKL MNKQSF
LSYNGAEQFLEPARA
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_019552

**ORF Size:** 2145 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\\_019552.2](#), [NP\\_062425.1](#)

**RefSeq Size:** 4325 bp

**RefSeq ORF:** 2148 bp

**Locus ID:** 56199

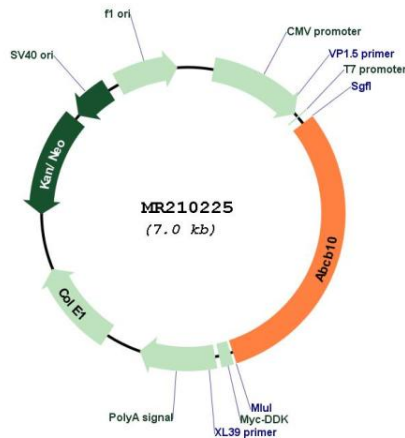
**UniProt ID:** [Q9JL39](#)

**Cytogenetics:** 8 E2

**MW:** 77.6 kDa

**Gene Summary:** This gene encodes a member of the ATP-binding cassette superfamily of transporters. ATP-binding cassette proteins transport various molecules across extra- and intra-cellular membranes. The encoded protein is localized to the mitochondrial inner membrane where it interacts with and stabilizes mitoferrin-1, and is important for heme biosynthesis. Additional evidence suggests the encoded protein is involved in oxidative stress protection and erythropoiesis. [provided by RefSeq, May 2013]

### Product images:



Circular map for MR210225