

## Product datasheet for **MG210225**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Abcb10 (NM_019552) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Abcb10
Synonyms:	ABC-m; Abc-me; Abcb12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG210225 representing NM\_019552  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGCGCCCTTCTGCTAGGGCGCTACTGCTGATTCCGCGTCGGGGCCCTGCCGTGCGAGCGTGGGCC  
 CGGCCGTCTCCTCTCGGATATGGCTGGCTTCTGAATGGACCCCGCTCGTACGCGCGTGGACCTCTCTGAT  
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 GCCGAAAATGAGCACCTGGTCCAGGAGGCCCTTGACCGGCTGATGGAAGGGAGAACCCTGCTGATCATAG  
 CCCACCGCTGTCCACATTAAGAATGCCAACTTTGTTGCTGTCTTGACCACGGAAAGATCTGTGAACA  
 CGGGACACATGAAGAGCTGCTCCTGAAGCCCAATGGGCTTTACAGAAAACCTGATGAACAAGCAGAGTTTC  
 CTGTCATATAATGGAGCAGAGCAGTTCTGGAACCTGCACGGGCG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

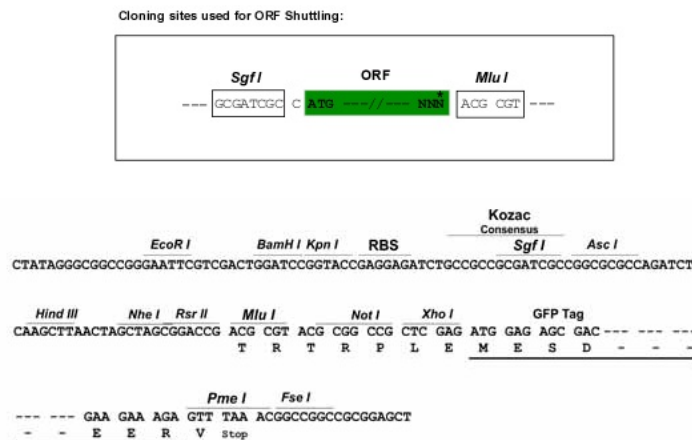
**Protein Sequence:** >MG210225 representing NM\_019552  
Red=Cloning site Green=Tags(s)

```
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QLAQKEALARAGFFGAAGLSGNLIVLSVLYKGLLMGSAHMTVGELSSFLMYAFWVGLSIGLSSFYSEL
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SSVTAQQVERAAEVANAAEFIRSFQGFDTVVGEKGIILSGGQKQRIAIARALLKNPKILLLDEATSALD
AENEHLVQEALDRLMEGRVLI IAHLRSTIKNANFVAVLDHGKICEHGTHEELLKPNGLYRKL MNKQSF
LSYNGAEQFLEPARA
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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

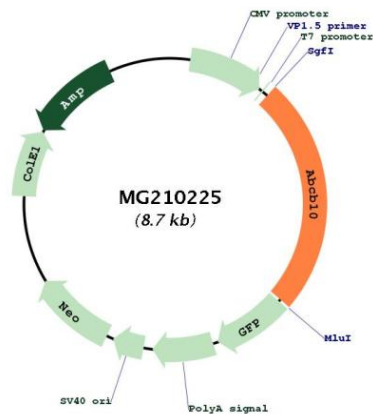
**Locus ID:** 56199

**UniProt ID:** [Q9J139](#)

**Cytogenetics:** 8 E2

**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 MG210225