

## Product datasheet for **SC337341**

### **ABCB8 (NM\_001282291) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ABCB8 (NM_001282291) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABCB8
Synonyms:	EST328128; M-ABC1; MABC1; MITOSUR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001282291, the custom clone sequence may differ by one or more nucleotides

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ATGCTGGTGCATTTATTCGGGTCGGGATTCGGGGTGGCCATTCCCAGGCAGGCTGCTACCGCCCTCC
GCTTCCAGACATTCTCAGCTGTCAGAAACACATGGCGTAATGGGAAAACCTGGACAGTTACACAAGGCAGA
AGGAGAGTACTCTGATGGCTACCGCAGCTCCTCCCTCCTCGGGCCGTGGCCACCTGCGGTCCCAGCTC
TGGGCCACCTCCCTCGAGCCCCCTAGCTCCCAGATGGAGCCCTCTGCCTGGTGTGGGTTGGGGGAG
CCCTGCTAGGCCCATGGTACTGAGTAAGCATCCCCACCTCTGCCTTGTGGCCCTGTGTAGGCAGAAGA
GGCCCTCCTGCCAGCTCCACACCCCATGTCGTGGGGTCTCGCTTAACTGGAAGCTCTTCTGGCAGTTT
CTGACCCCCACCTGCTGGTCTGGGGTACGGCTCGTGTGGCCTTGGGTGCGGCACTCGTGAATGTAC
AGATCCCCCTGCTCCTGGCCAGCTGGTAGAGGTCGTGGCCAAGTACACAAGGGACCACGTAGGGAGTTT
CATGACTGAGTCCAGAATCTCAGCACCCACCTGCTTATCCTCTATGGTGTCCAGGGACTGCTGACCTT
GGGTACCTGGTGTGCTGTCCCACGTTGGCGAGCGCATGGCTGTGGACATGCGGAGGGCCCTCTTACGT
CCCTGCTCCGACAAGACATCACCTTCTTTGACGCCAATAAGACAGGGCAGCTGGTGAAGCCGTTGACAAC
TGACGTGCAGGAGTTAAGTCATCCTTCAAGCTTGTCTATCTCCAGGGGCTGCGAAGCTGCACCCAGGTG
GCAGGCTGCCTGGTGTCCCTGTCCATGCTGTGACACGCCTCACGCTGCTGATGGTGGCCACACCAG
CCCTGATGGGAGTGGGCACCCTGATGGGCTCAGGCCTCCGAAAATTGCTCTGCCAGTGTGAGGAGCAGAT
CGCCAGGGCAATGGGCGTAGCAGACGAGGCCCTGGGCAATGTGCGGACTGTGCGTGCCTTCGCCATGGAG
CAACGGGAAGAGGAGCGCTATGGGGCAGAGCTGGAAGCCTGCCGTGCCGGCAGAGGAGCTGGGCCGCG
GCATCGCCTTGTTCGAAGGGCTTCCAACATCGCCTTCAACTGCATGGTCTTGGGTACCCATTTATTGG
GGGCTCCCTTGTGGCCGACAGCAGCTGACAGGGGGAGACCTCATGTCTTCTGGTGGCCTCCCAGACA
GTGCAAAGGTCCATGGCCAACCTCTCTGTCTTGGCAGGTGGTCCGGGGCTGAGTGCAGGTGCC
GGGTCTTTGAGTACATGGCCCTGAACCCCTGCATCCACTGTCTGGGGGCTGCTGCGTCCCAAGAGCA
GCTGCGTGGCTCCGTTACATTTCAAGACGCTGCTTACGCTACCCCTGCCGCCCGGCTTCGAGGTGCTG
AAAGACTTCACCCTGACGCTGCCCCCTGGCAAGATCGTGGCCCTCGTGGCCAGTCTGGCGGAGGAAAGA
CCACCGTGGCTTCCCTGCTGGAGCGCTTACGACCCACGGCAGGCGTGGTGTGCTGGATGGGCGGGA
CCTGCGCACCCCTGACCCCTCCTGGCTCCGGGGCCAGGTTGTGGCTTTCATCAGCCAGGAGCCCGTCTG
TTTGGGACGACCATCATGAAAACATCCGCTTTGGGAAGCTGGAAGCTTCCGATGAAGAGGTGTACACAG
CCGCCCGGAAGCGAATGCTCACGAGTTCATCACCAGTTCCTCCGAGGGTACAACACGGTGTGCTGGTGA
ACGGGGCACTACCCTGTCTGGGGCCAGAAGCAGCGCCTGGCCATCGCCGAGCCCTTATCAAGCAGCCC
ACGGTGTGATACTGGATGAAGCTACCAGCGCGCTGGATGCAGAGTCCGAGCGGGTGTACAGGAGGCC
TGGACCGGGCCAGTGCAGGCCGACGGTGTGTAATTGCCACCGGCTCAGCACTGTCCGTGGGGCCCA
CTGCATTGTGTCATGGCCGATGGCCGTGTCTGGGAGGCTGGGACACATGAAGAGCTCTGAAGAAAGGC
GGGCTATACGCCGAGCTCATCCGGAGGCAGGCCCTGGATGCCCGAGGACAGCGGCCCCACCGCCAAAA
AGCCAGAAGGCCCCAGGAGCCACCAGCACAAAGTCTGA
    
```

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001282291
- 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:**

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\\_001282291.1](#), [NP\\_001269220.1](#)

**RefSeq Size:** 4735 bp

**RefSeq ORF:** 2208 bp

**Locus ID:** 11194

**UniProt ID:** [Q9NUT2](#)

**Cytogenetics:** 7q36.1

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** ABC transporters

**Gene Summary:** This nuclear gene encodes a multi-pass membrane protein that is targeted to the mitochondrial inner membrane. The encoded protein is an ATP-dependent transporter that may mediate the passage of organic and inorganic molecules out of the mitochondria. Loss of function of the related gene in mouse results in a disruption of iron homeostasis between the mitochondria and cytosol. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.