

## Product datasheet for **SC333087**

### **ABCB7 (NM\_001271698) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ABCB7 (NM_001271698) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABCB7
Synonyms:	ABC7; ASAT; Atm1p; EST140535
Vector:	pCMV6-Entry (PS100001)



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**Fully Sequenced ORF:** >SC333087 representing NM\_001271698.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGCGCTGCTCGCGATGCATTCTTGGCGCTGGGCGCCGCGCGGCTGCTTTCGAAAAGCGCCGGCAC
TCCGCGATTCTGATCCGGCCTTTAGTCTCTGTTAGCGGCTCAGGTCCGCAGTGGAGGCCACATCAACTC
GGCGCCTTGGGAACCGCTCGAGCCTACCAGGCTCTCCAGGTATGGCCACTGATAGAAAAGAGGACATGT
TGGCATGGTCATGCAGGAGGAGGACTCCACACAGACCCAAAAGAAGGGTTAAAAGATGTTGATACTCGG
AAAATCATAAAAAGCAATGCTTTCTTATGTGTGGCCAAAAGACAGGCCAGATCTACGAGCTAGAGTTGCC
ATTTTCGCTGGGATTTTTGGGTGGTGCAAAGCCATGAATATTGTGGTTCCCTTTCATGTTTAAATATGCT
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ACAAGGGGTATCAGTTTTGTCTGAGTGTCTTGGTATTTAATCTTCCCATCATGTTTGAAGTGATG
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ACATACACAGCATTACAGTTGCACTCACACGGTGGAGAAGTACTAGATTTAGAAATAGAAATGAACAAAGCA
GATAATGATGCAGGTAATGCTGCTATAGACTCACTGCTGAATTATGAAACTGTGAAGTATTTAATAAT
GAAAGATATGAAGCACAGAGATATGATGGATTTTTGAAGACGTATGAGACTGCTTCATTGAAAAGTACC
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GTCCTCTCCATAATACTATTTTATACAACCTCTTATATGGAAACATCAGTGCTTACCTGAGGAAAGTG
TATGCAGTGGCAAATAGCTGGACTTCATGATGCAATTCTTGAATGCCACATGGATATGACACCCAA
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GTTGATGCAGATGAAATCATTGTCTTGGATCAGGGTAAGGTAGCCGAACGTGGTACCCACCATGTTTGG
CTTGCTAACCCCTCATAGTATCTATTCAGAAATGTGGCATAACAGAGCAGCCGTGTGCAGAACCATGAT
AACCCCAAATGGGAAGCAAAGAAAGAAAATATATCCAAGAGGAGGAAAGAAAGAAACTACAAGAAGAA
ATTGTCAATAGTGTGAAAGGCTGTGAAACTGTTCTGTGCTAA
```

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001271698

**Insert Size:** 2181 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:**

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\\_001271698.1](#)

**RefSeq Size:** 2447 bp

**RefSeq ORF:** 2181 bp

**Locus ID:** 22

**Cytogenetics:** Xq13.3

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** ABC transporters

**MW:** 79.8 kDa

**Gene Summary:** The membrane-associated protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance as well as antigen presentation. This gene encodes a half-transporter involved in the transport of heme from the mitochondria to the cytosol. With iron/sulfur cluster precursors as its substrates, this protein may play a role in metal homeostasis. Mutations in this gene have been associated with mitochondrial iron accumulation and isodicentric (X)(q13) and sideroblastic anemia. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2012]

Transcript Variant: This variant (4) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. This results in a shorter protein (isoform 4), compared to isoform 1.