

Product datasheet for **SC337041**

ABCB8 (NM_001282293) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABCB8 (NM_001282293) 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)



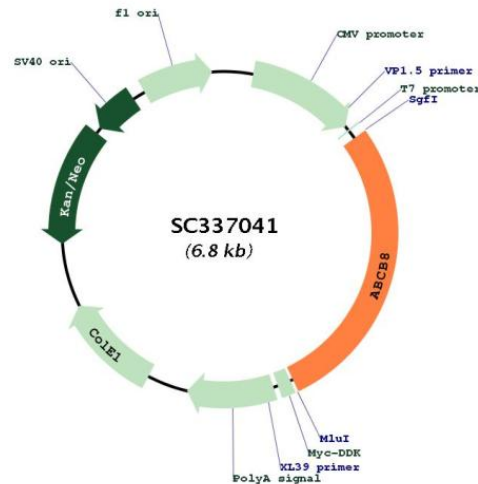
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Fully Sequenced ORF: >SC337041 representing NM_001282293.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAGGGTGAAACTGCTATTGCCGGCGGCTCCTGTTTTACCGCGTCAGCATGCTGGTGCATTTATTTCCG
GGTCGGGATTCGGGGTGGCCATTCCAGGCAGGCTGCTACCGCCCTCCGCTTCCAGACATTCTCAGC
TGTGAGCTGGCCTTGGGTGCGGCACTCGTGAATGTACAGATCCCCCTGCTCCTGGCCAGCTGGTAGAG
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AATGCTCACGAGTTCATCACCAGCTTCCCCGAGGGCTACAACACGGTGTGCGGTGAACGGGGCACTACC
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GTCATGGCCGATGGCCGTGTCTGGGAGGCTGGGACACATGAAGAGCTCCTGAAGAAAGGCGGGCTATAC
GCCGAGCTCATCCGAGGAGGCGCCCTGGATGCCCGAGGACAGCGGCCCCACCGCCAAAAGCCAGAA
GGCCCCAGGAGCCACCAGCACAAGTCC TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001282293

Insert Size: 1893 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_001282293.1](#)

RefSeq Size: 4371 bp

RefSeq ORF: 1893 bp

Locus ID: 11194

UniProt ID: [Q9NUT2](#)

Cytogenetics: 7q36.1

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: ABC transporters

MW: 68.1 kDa

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 (4) lacks two alternate exons in the 5' coding region and initiates translation at an alternate upstream start codon, compared to variant 1. The encoded isoform (d) is shorter and has a distinct N-terminus, compared to 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.