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Product datasheet for SC115672

ABCB8 (NM_007188) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABCB8 (NM_007188) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABCB8
Synonyms:	EST328128; M-ABC1; MABC1; MITOSUR
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF within SC115672 sequence for NM_007188 edited (data generated by NextGen Sequencing)

ATGCTGGTGCATTTATTTCGGGTCGGGATTCGGGGTGGCCCATTCCCAGGCAGGCTGCTA
CCGCCCCTCCGCTTCCAGACATTCTCAGCTGTCAGGTACTCTGATGGCTACCGCAGCTCC
TCCCTCCTCCGGGCCGTGGCCCACCTGCGGTCCCAGCTCTGGGCCCACCTCCCTCGAGCC
CCCCTAGCTCCCAGATGGAGCCCCTCTGCCTGGTGCTGGGTTGGGGGAGCCCTGCTAGGC
CCCATGGTACTGAGTAAGCATCCCCACCTCTGCCTTGTGGCCCTGTGTGAGGCAGAAGAG
GCCCCTCCTGCCAGCTCCACACCCCATGTCGTGGGGTCTCGCTTTAACTGGAAGCTCTTC
TGGCAGTTTCTGCACCCCCACCTGCTGGTCCTGGGGGTAGCCGTCGTGCTGGCCTTGGGT
GCGGCACTCGTGAATGTACAGATCCCCCTGCTCCTGGGCCAGCTGGTAGAGGTCGTGGCC
AAGTACACAAGGGACCACGTAGGGAGTTTCATGACTGAGTCCCAGAATCTCAGCACCCAC
CTGCTTATCCTCTATGGTGTCCAGGGACTGCTGACCTTCGGGTACCTGGTGCTGCTGTCC
CACGTTGGCGAGCGCATGGCTGTGGACATGCGGAGGGCCCTCTTCAGCTCCCTGCTCCGA
CAAGACATCACCTTCTTTGACGCCAATAAGACAGGGCAGCTGGTGAGCCGCTTGACAACT
GACGTGCAGGAGTTTAAGTCATCCTTCAAGCTTGTCATCTCCCAGGGGCTGCGAAGCTGC
ACCCAGGTGGCAGGCTGCCTGGTGTCCCTGTCCATGCTGTCGACACGCCTCACGCTGCTG
CTGATGGTGGCCACACCAGCCCTGATGGGAGTGGGCACCCTGATGGGCTCAGGCCTCCGA
AAATTGTCTCGCCAGTGTCAGGAGCAGATCGCCAGGGCAATGGGCGTAGCAGACGAGGCC
CTGGGCAATGTGCGGACTGTGCGAGCCTTCGCCATGGAGCAACGGGAAGAGGAGCGCTAT
GGGGCAGAGCTGGAAGCCTGCCGCTGCCGGGCAGAGGAGCTGGGCCGCGGCATCGCCTTG
TTCCAAGGGCTTTCCAACATCGCCTTCAACTGCATGGTCTTGGGTACCCTATTTATTGGG
GGCTCCCTTGTGGCCGGACAGCAGCTGACAGGGGGAGACCTCATGTCCTTCCTGGTGGCC
TCCCAGACAGTGCAAAGGTCCATGGCCAACCTCTCTGTCCTGTTTGGGCAGGTGGTCCGG
GGGCTGAGTGCAGGTGCCCGGGTCTTTGAGTACATGGCCCTGAACCCCTGCATCCCACTG
TCTGGGGGCTGCTGCGTCCCCAAAGAGCAGCTGCGTGGCTCCGTTACATTTCAGAACGTC
TGCTTCAGCTACCCCTGCCGCCCCGGCTTCGAGGTGCTGAAAGACTTCACCCTGACGCTG
CCCCCTGGCAAGATCGTGGCCCTCGTGGGCCAGTCTGGCGGAGGAAAGACCACCGTGGCT
TCCCTGCTGGAGCGCTTCTACGACCCCACGGCAGGCGTGGTGATGCTGGATGGGCGGGAC
CTGCGCACCCTTGACCCCTCCTGGCTCCGGGGCCAGGTTGTCGGCTTCATCAGCCAGGAG
CCCGTCCTGTTTGGGACGACCATCATGGAAAACATCCGCTTTGGGAAGCTGGAAGCTTCC
GATGAAGAGGTGTACACAGCCGCCCGGGAAGCGAATGCTCACGAGTTCATCACCAGCTTC
CCCGAGGGCTACAACACGGTCGTCGGTGAACGGGGCACTACCCTGTCTGGGGGCCAGAAG
CAGCGCCTGGCCATCGCCCGAGCCCTTATCAAGCAGCCCACGGTGCTGATACTGGATGAA
GCTACCAGCGCGCTGGATGCAGAGTCCGAGCGGGTTGTACAGGAGGCCCTGGACCGGGCC
AGTGCAGGCCGCACGGTGCTGGTAATTGCCCACCGGCTCAGCACTGTCCGTGGGGCCCAC
TGCATTGTCGTCATGGCCGATGGCCGTGTCTGGGAGGCTGGGACACATGAAGAGCTCCTG
AAGAAAGGCGGGCTATACGCCGAGCTCATCCGGAGGCAGGCCCTGGATGCCCCGAGGACA
GCGGCCCCACCGCCCAAAAAGCCAGAAGGCCCCAGGAGCCACCAGCACAAGTCCTGA

Clone variation with respect to NM_007188.3
984 t=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007188 unedited
NGGGTTCAAATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGCCAACAT
AGAGCCCTCAGTGGGATGAGGGTGAAACTGCTATTGCCGGCGGCTCCTGTTTTACCGCGT
CAGCATGCTGGTGCATTTATTTCGGGTCGGGATTCGGGGTGGCCCATTCCCAGGCAGGCT
GCTACCGCCCCTCCGCTTCCAGACATTCTCAGCTGTCAGGTACTCTGATGGCTACCGCAG
CTCCTCCCTCCTCCGGGCCGTGGCCCACCTGCGGTCCCAGCTCTGGGCCCACCTCCCTCG
AGCCCCCCTAGCTCCCAGATGGAGCCCCTCTGCCTGGTGCTGGGTTGGGGGAGCCCTGCT
AGGCCCCATGGTACTGAGTAAGCATCCCCACCTCTGCCTTGTGGCCCTGTGTGAGGCAGA
AGAGGCCCCTCCTGCCAGCTCCACACCCCATGTCGTGGGGTCTCGCTTTAACTGGAAGCT
CTTCTGGCAGTTTCTGCACCCCCACCTGCTGGTCCTGGGGGTAGCCGTCGTGCTGGCCTT
GGGTGCGGCACTCGTGAATGTACAGATCCCCCTGCTCCTGGGCCAGCTGGTAGAGGTCGT
GGCCAAGTACACAAGGGACCACGTAGGGAGTTTCATGACTGAGTCCCAGAATCTCAGCAC
CCACCTGCTTATCCTCTATGGTGTCCAGGGACTGCTGACCTTCGGGTACCTGGTGCTGCT
GTCCCACGTTGGCGAGCGCATGGCTGTGGACATGCGGAGGGCCCTCTTCAGCTCCCTGCT
CCGACNAGACATCACCTTCTTTGACGCCAATAAGACAGGGCAGCTGGTGAGCCGCTTGAC
AACTGACGTGCANGAGTTTTAAGTCATCCTTCAAGCTTGTCATCTCCCAGGGNCTGCNGA
ACTGCACCCAGNT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_007188 unedited
CACGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTCTGGTGGGAGGGTAGGCAGCCGG
CAGGACTGGGGAGGGGAGGGAGGGATTGGCCTCCCCTGCCAGCTGCTCGGTCCCGGCTTT
ATTGTGAGCAGGAGCAGTCGCATCGACTCTACACATGCTGAGTCCTCCTGGGGGCTCATT
TCTTATTAGGCTCTTCCAGGCTGAGTCCCATCCCTAACACTGATGCTTGGTAGTGACCAT
CCTTAGGGGGTCCTTTTCATGACTTGTGCTGCTGGTTACTGGGGTCTTCTGGTTTTTCGG
CTCGGTGGGGTTCGATGTCCTTGGGGTATTCTGGGCCTGTCTCCGGATGATCCCGACGCA
CATCCCGCCTCTCTTCAGGCAGCTCCTTTTGTTGCTTTATCTCTTTCACTCGGTCTTTGT
CTTTGTAAACATTGATTTTGGTTTTTTTCGCTCCCTGCTTGTATTCTCTGGTTACTTCAT
TCTTCACTCCATCGGTTCCGCTCTGCTACTGTATCTTGTTCTTTCGCTTATATTTCCCTT
CTCTTTTCTCTTCTCCTCTCTGGTTTCTTCTTACTTACCATTCCTCCTCTCTCTCCTCCC
ACTGGCCTCTTCTTCCGCTATTTTTCTCCCTCCTCCCTCCTCCTTTTGTTTCTCCCCTTC
TCTTCTTTCTTCCCCACATCCTACTACTTCGCACCCATCTCTTCGTGTTTTTTTCAGTTC
TTTCCTCCCCTCTTCTCTCTTTCCCCCCTCTCCTCCCTTTTCCTCTCTCTCTGTTTTCTT
TTATTTCCTTTCTCATTTACTTACTGCTTCTCCTCACTTTCGATATCATTTACTTTTCTA
CTCCCCCACTTTCTCTGTCTTATCTACTCTCCTTCCTTCCTACTTACTTGTTACCTCTTT
ACTTCCCCTTTCTTCCCCTTCACCCCTTCTTCTTTCTCTCTCCTACATTCTCTCTCTCCT
CTCACTGCTCCTTTTTTAACTCTCTCTCTCTTTTCCCCTCTTTTTTTTCTCTTCTTCTTT
ATACCACGCCCCTCTATCNCCACTCACTCTCCTTCTACGCAN

Restriction Sites: NotI-NotI

ACCN: NM_007188

Insert Size: 2560 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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
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_007188.2, NP_009119.1
RefSeq Size:	2439 bp
RefSeq ORF:	2157 bp
Locus ID:	11194
UniProt ID:	Q9NUT2
Cytogenetics:	7q36.1
Domains:	ABC_membrane, ABC_tran, AAA
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 (2) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. The encoded isoform (b) is shorter than 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.