

Product datasheet for **RC239147**

ABCB8 (NM_001282293) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABCB8 (NM_001282293) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ABCB8
Synonyms:	EST328128; M-ABC1; MABC1; MITOSUR
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC239147 representing NM_001282293
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGGTAAACTGCTATTGCCGGCGCTCCTGTTTTACCGCGTCAGCATGCTGGTGCATTTATTTCCG
 GTCGGGATTTCGGGTGGCCATTCCCAGGCAGGCTGCTACCGCCCTCCGCTTCCAGACATTCTCAGCTG
 TCAGCTGGCCTTGGGTGCGGCACTCGTGAATGTACAGATCCCCCTGCTCCTGGGCCAGCTGGTAGAGGTC
 GTGGCCAAGTACACAAGGGACCAGTAGGGAGTTTCATGACTGAGTCCCAGAATCTCAGCACCCACCTGC
 TTATCCTCTATGGTGTCCAGGGACTGCTGACCTTCGGGTACCTGGTGTGCTGTCCCACGTTGGCGAGCG
 CATGGCTGTGGACATGCGGAGGGCCCTCTCAGCTCCCTGCTCCGACAAGACATCACCTTCTTTGACGCC
 AATAAGACAGGGCAGCTGGTGGCCGCTTGACAACTGACGTGCAGGAGTTAAGTCATCCTTCAAGCTTG
 TCATCTCCAGGGGCTGCGAAGCTGCACCCAGGTGGCAGGCTGCCTGGTGTCCCTGTCCATGCTGTGCAG
 ACGCCTCAGCTGCTGCTGATGGTGGCCACACCAGCCCTGATGGGAGTGGCACCCCTGATGGGCTCAGGC
 CTCGAAAATTGTCTCGCCAGTGTGAGGAGCAGATCGCCAGGGCAATGGGCGTAGCAGACAGGCCCTGG
 GCAATGTGCGGACTGTGCGTGCCTTCGCCATGGAGCAACGGGAAGAGGAGCGCTATGGGGCAGAGCTGGA
 AGCCTGCCGCTGCCGGGCAGAGGAGCTGGGCCGCGGCATCGCCTTGTTCAGGGCTTCCAAACATCGCC
 TTCAACTGCATGGTCTTGGGTACCTATTTATTGGGGGCTCCCTTGTGGCCGGACAGCAGCTGACAGGGG
 GAGACCTCATGCTCTTCTGGTGGCCTCCCAGACAGTGCAAAGGTCCATGGCCAACCTCTCTGCTCTGTT
 TGGGCAGTGGTCCGGGGCTGAGTGCAGGTGCCCGGTCTTTGAGTACATGGCCCTGAACCCCTGCATC
 CCACTGTCTGGGGCTGCTGCGTCCCCAAGAGCAGTGCCTGGTCCGTTACATTTCAGAACGTCTGCT
 TCAGTACCCCTGCCGCCCGCTTCGAGGTGCTGAAAGACTTCACCCTGACGCTGCCCTGGCAAGAT
 CGTGGCCCTCGTGGCCAGTCTGGCGGAGGAAAGACCACCGTGGCTTCCCTGCTGGAGCGCTTCTACGAC
 CCCACGGCAGGCGTGGTGTGCTGGATGGCGGGACCTGCGCACCCCTGACCCCTCCTGGCTCCGGGGCC
 AGGTTGTGCGGCTTATCAGCCAGGAGCCGCTCCTGTTGGGACGACCATCATGAAAACATCCGCTTTGG
 GAAGCTGGAAGCTTCCGATGAAGAGGTGTACACAGCCGCCGGGAAGCGAATGCTCACGAGTTCATCACC
 AGCTTCCCCGAGGGCTACAACACGGTGTGCGTGAACGGGGCACTACCCTGTCTGGGGGCCAGAAGCAGC
 GCCTGGCCATCGCCGAGCCCTATCAAGCAGCCACGGTGTGATACTGGATGAAGCTACCAGCGCGCT
 GGATGCAGAGTCCGAGCGGTTGTACAGGAGCCCTGGACGGGCCAGTGCAGGCCGACGGTGTGGTA
 ATTGCCACCGGCTCAGCACTGCTCGTGGGGCCACTGCATTGTGCTCATGGCCGATGGCCGTGTCTGGG
 AGGCTGGGACACATGAAGAGCTCCTGAAGAAAGCGGGCTATACGCCGAGCTCATCCGGAGCAGGCCCT
 GGATGCCCGGAGGACAGCGGCCACCGCCAAAAGCCAGAAGGCCAGGAGCCACCAGCACAAAGTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC239147 representing NM_001282293
 Red=Cloning site Green=Tags(s)

MRVKLLLPAAPVLPQHGAGFISGRDSGWPIPRQAATAPPLPDILSCQLALGAALVNVQIPLLLGQLVEV
 VAKYTRDHVGSFMTESQNLSTHLLILYGVQGLLTFGYLVLLSHVGERMAVDMRRALFSSLLRQDITFFDA
 NKTGQLVSRLTTDVQEFKSSFKLVISQGLRSTQVAGCLVLSMLSTRLLTLLMVATPALMGVGLTMGSG
 LRKLSRQCQEIQIARAMGVADEALGNVRTVRAFAMEQREEERYGAELEACRCRAEELGRGIALFQGLSNIA
 FNCMVLTGTFIGGSLVAGQQLTGGDLMSFLVASQTVQRSMANLSVLFQVVVRLSAGARVFEYMLNPCI
 PLSGGCCVPKEQLRGSVTFQNVCFSYPCRPGEVLKDFTLTLPKGIVALVGQSGGKTTVASLLERFYD
 PTAGVVMLDGRDLRTLDPSWLRGQVVGFSIQEPVLFGTTIMENIRFGKLEASDEEVYTAAREANAHEFIT
 SFPEGYNTVVGERGTTLSGGQKQRLAIARALIKQPTVLILDEATSALDAESERVVQEALDRASAGRTVLV
 IAHLRSTVIRGACIVVMADGRVWEAGTHEELLKKGGLYAEIIRRALDAPRTAAPPKPEGPRSHQHS

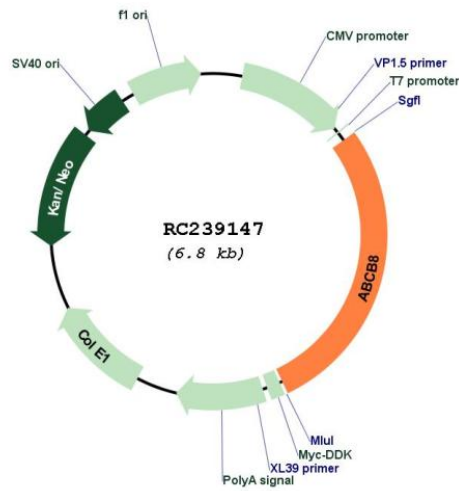
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282293

ORF Size: 1890 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:	<ol style="list-style-type: none">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 , NP_001269222.1
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:	68.5 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]