

Product datasheet for **RC239326**

ABCB8 (NM_001282292) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABCB8 (NM_001282292) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ABCB8
Synonyms:	EST328128; M-ABC1; MABC1; MITOSUR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC239326 representing NM_001282292
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGCTGGTGCATTTATTTCTGGGTCGGGATTCGGGGTGGCCATTCCAGGCAGGCTGCTACCGCCCTCC
 GCTTCCAGACATTCTCAGCTGTCAGGTACTCTGATGGCTACCGCAGCTCCTCCCTCCTCCGGGCCGTGGC
 CCACCTGCGGTCCAGCTCTGGGCCACCTCCCTCGAGCCCCCTAGCTCCAGATGGAGCCCTCTGCC
 TGGTGTGGGTTGGGGAGCCCTGCTAGGCCCCATGGTACTGAGTAAGCATCCCCACCTCTGCCTTGTGG
 CCCTGTGTGAGGCAGAAGAGGCCCTCTGCCAGCTCCACACCCCATGTCGTGGGGTCTCGCTTTAACTG
 GAAGCTCTTCTGGCAGTTTCTGCACCCCCACCTGCTGGTCTGGGGTAGCCGTCGTGCTGGCCTTGGGT
 GCGGCACTCGTGAATGTACAGATCCCCCTGCTCCTGGGCCAGCTGGTAGAGGTCTGGCCAAGTACACAA
 GGGACCACGTAGGGAGTTTCATGACTGAGTCCCAGAATCTCAGCACCCACCTGCTTATCCTCTATGGTGT
 CCAGGGACTGCTGACCTTCGGGTACCTGGTGTCTGTCCACGTTGGCGAGCGCATGGCTGTGGACATG
 CGGAGGGCCCTCTTCAGCTCCCTGCTCCGACAAGACATCACTTCTTTGACGCCAATAAGACAGGGCAGC
 TGGTGAGCCGCTTGACAACCTGACGTGCAGGAGTTTAAGTCATCCTTCAAGCTTGTCTATCTCCAGGGGT
 GCGAAGCTGCACCCAGGTGGCAGGCTGCCTGGTGTCCCTGTCCATGCTGTGACACGCCTCACGCTGCTG
 CTGATGGTGGCCACACCAGCCCTGATGGGAGTGGGCACCTGATGGGCTCAGGCCTCCGAAAATTGTCTC
 GCCAGTGTGAGGAGCAGATCGCCAGGGCAATGGGCGTAGCAGACGAGGCCCTGGGCAATGTGCGGACTGT
 GCGTGCCCTTCGCCATGGAGCAACGGGAAGAGGAGCGCTATGGGGCAGAGCTGGAAGCCTGCCGCTGCCG
 GCAGAGGAGCTGGGCCGCGGCATCGCCTTGTTCCAAGGGCTTTCCAACATCGCCTTCAACTGCATGGTCT
 TGGGTACCCTATTTATTGGGGGCTCCCTTGTTGGCCGACAGCAGCTGACAGGGGGAGACCTCATGTCCTT
 CCTGGTGGCCTCCAGACAGTGCAAAGGTCCATGGCCAACCTCTCTGTCTGTTTGGGCAGGTGGTCCGG
 GGGCTGAGTGCAGGTGCCCGGTCTTTGAGTACATGGCCCTGAACCCCTGCATCCCACTGTCTGGGGGT
 GCTGCGTCCCCAAGAGCAGCTGCGTGGCTCCGTTACATTTCAGAACGTCTGCTTCAGCTACCCCTGCCG
 CCCCAGCTTCGAGGTGCTGAAAGACTTCACCTGACGCTGCCCCCTGGCAAGATCGTGGCCCTCTGGGC
 CAGTCTGGCGGAGGAAAGACCACCGTGGCTTCCCTGCTGGAGCGCTTCTACGACCCACGGCAGGCGTGG
 TGATGCTGGATGGGCGGACCTGCGCACCTTGACCCCTCCTGGTCCGGGGCAGGTTGTGCGCTTCAT
 CAGCCAGGAGCCCGTCTGTTTGGGACGACCATCATGAAAACATCCGCTTTGGGAAGCTGGAAGCTTCC
 GATGAAGAGGTGTACACAGCCGCCCGGGAAGCGAATGCTCACGAGTTTCATCACCAGCTTCCCCGAGGGCT
 ACAACACGGTCTGTCGGTGAACGGGGCACTACCCTGTCTGGGGGCCAGAAGCAGCGCTGGCCATCGCCCG
 AGCCCTTATCAAGCAGCCACCGGTGCTGATACTGGATGAAGCTACCAGCGCGCTGGATGCAGAGTCCGAG
 CGGGTTGTACAGGAGGCCCTGGACCGGGCCAGTGCAGGCCGCACGGTGTGGCTGGGACACATGAAGAGC
 TCCTGAAGAAAGCGGGCTATACGCCGAGCTCATCCGAGGCAGGCCCTGGATGCCCCGAGGACAGCGGC
 CCCACCGCCAAAAGCCAGAAGGCCCCAGGAGCCACCAGCACAAAGTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

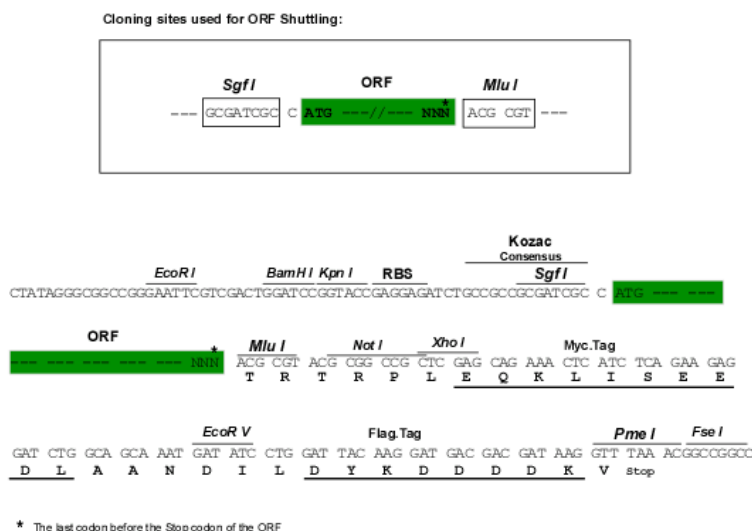
Protein Sequence: >RC239326 representing NM_001282292
 Red=Cloning site Green=Tags(s)

MLVHLFRVGGIRGGPFGRLLPPLRFQTFSAVRYS DGYRSSSLRAVAHLRSQLWAHLPRAPLAPRWSPSA
WCWVG GALLGPMVL SKHPHLCLVALCEAEEAPPASSTPHVGSFRFNKLFWQFLHPHLLVLGVAVVLALG
AALVNVQIPLLLGQLVEVYAKYTRDHVGSFMTESQNLSTHLLILYGVQGLLTFGYLVLLSHVGERMAVDM
RRALFSSLLRQDITFFDANKTGQLVSRLTTDVQEFKSSFKLVISQGLRSCQTQVAGCLVSLSMLSTRLL
LMVATPALMGVGTLMGSGRLKLSRQCQEIQARAMGVADEALGNVRTVRAFAMEQREEERYGAEL EACRCR
AEELGRGIALFQGLSNIAFNCMVLGTLFIGGSLVAGQQLTGGDMSFLVASQTVQRSMANLSVLFQGVVR
GLSAGARVF EYMALNPCIPLSGGCCVPKEQLRGSVTFQNVCFSYPCRPGEVLKDFTLTLP PGKIVALVG
QSGGGKTTVASLLERFYDPTAGVVMLDGRDLRTLDPSWLRGQVVGFI SQEPVLFGTTIMENIRFGKLEAS
DEEVYTAAREANAHEFITSFPEGYN TVVGERGTTLGGQKQRLAIARALIKOPTVILDEATSALDAESE
RVVOEALDRASAGRTVLAGTHEELLKKGGLYAEILIRROALDAPRTAAPPKKPEGPRSHOHKS

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM 001282292

ORF Size: 2079 bp

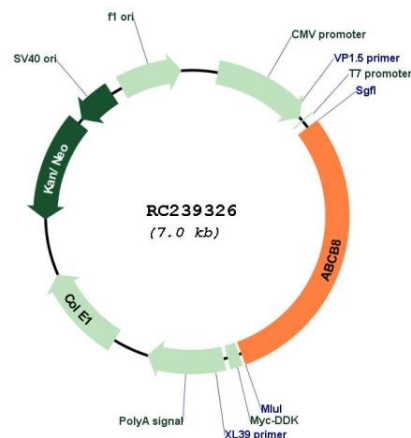
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001282292.2</u>
RefSeq Size:	4609 bp
RefSeq ORF:	2082 bp
Locus ID:	11194
UniProt ID:	<u>Q9NUT2</u>
Cytogenetics:	7q36.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ABC transporters
MW:	75.8 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]

Product images:



Circular map for RC239326