OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG239326

ABCB8 (NM_001282292) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABCB8 (NM_001282292) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ABCB8
Synonyms:	EST328128; M-ABC1; MABC1; MITOSUR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG239326 representing NM_001282292.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGGTGCATTTATTTCGGGTCGGGATTCGGGGTGGCCCATTCCCAGGCAGGCTGCTACCGCCCCTC
CGCTTCCAGACATTCTCAGCTGTCAGGTACTCTGATGGCTACCGCAGCTCCTCCCTCCTCCGGGCCGTG
GCCCACCTGCGGTCCCAGCTCTGGGCCCACCTCCCTCGAGCCCCCCTAGCTCCCAGATGGAGCCCCTCT
GCCTGGTGCTGGGTTGGGGGAGCCCTGCTAGGCCCCATGGTACTGAGTAAGCATCCCCACCTCTGCCTT
GTGGCCCTGTGTGAGGCAGAAGAGGCCCCTCCTGCCAGCTCCACACCCCATGTCGTGGGGTCTCGCTTT
AACTGGAAGCTCTTCTGGCAGTTTCTGCACCCCCACCTGCTGGTCCTGGGGGTAGCCGTCGTGCTGGCC
TTGGGTGCGGCACTCGTGAATGTACAGATCCCCCTGCTCCTGGGCCAGCTGGTAGAGGTCGTGGCCAAG
TACACAAGGGACCACGTAGGGAGTTTCATGACTGAGTCCCAGAATCTCAGCACCCACCTGCTTATCCTC
TATGGTGTCCAGGGACTGCTGACCTTCGGGTACCTGGTGCTGCTGTCCCACGTTGGCGAGCGCATGGCT
GTGGACATGCGGAGGGCCCTCTTCAGCTCCCTGCTCCGACAAGACATCACCTTCTTTGACGCCAATAAG
ACAGGGCAGCTGGTGAGCCGCTTGACAACTGACGTGCAGGAGTTTAAGTCATCCTTCAAGCTTGTCATC
TCCCAGGGGCTGCGAAGCTGCACCCAGGTGGCAGGCTGCCTGGTGTCCCTGTCCATGCTGTCGACACGC
CTCACGCTGCTGCTGATGGTGGCCACACCAGCCCTGATGGGAGTGGGCACCCTGATGGGCTCAGGCCTC
CGAAAATTGTCTCGCCAGTGTCAGGAGCAGATCGCCAGGGCAATGGGCGTAGCAGACGAGGCCCTGGGC
AATGTGCGGACTGTGCGTGCCTTCGCCATGGAGCAACGGGAAGAGGAGCGCTATGGGGCAGAGCTGGAA
GCCTGCCGCTGCCGGGCAGAGGAGCTGGGCCGCGGCATCGCCTTGTTCCAAGGGCTTTCCAACATCGCC
TTCAACTGCATGGTCTTGGGTACCCTATTTATTGGGGGCTCCCTTGTGGCCGGACAGCAGCTGACAGGG
GGAGACCTCATGTCCTTCCTGGTGGCCTCCCAGACAGTGCAAAGGTCCATGGCCAACCTCTCTGTCCTG
TTTGGGCAGGTGGTCCGGGGGCTGAGTGCAGGTGCCCGGGTCTTTGAGTACATGGCCCTGAACCCCTGC
ATCCCACTGTCTGGGGGCTGCTGCGTCCCCAAAGAGCAGCTGCGTGGCTCCGTTACATTTCAGAACGTC
TGCTTCAGCTACCCCTGCCGCCCCGGCTTCGAGGTGCTGAAAGACTTCACCCTGACGCTGCCCCCTGGC
AAGATCGTGGCCCTCGTGGGCCAGTCTGGCGGAGGAAAGACCACCGTGGCTTCCCTGCTGGAGCGCTTC
TACGACCCCACGGCAGGCGTGGTGATGCTGGATGGGCGGGACCTGCGCACCCTTGACCCCTCCTGGCTC
CGGGGCCAGGTTGTCGGCTTCATCAGCCAGGAGCCCGTCCTGTTTGGGACGACCATCATGGAAAACATC
CGCTTTGGGAAGCTGGAAGCTTCCGATGAAGAGGTGTACACAGCCGCCCGGGAAGCGAATGCTCACGAG
TTCATCACCAGCTTCCCCGAGGGCTACAACACGGTCGTCGGTGAACGGGGCACTACCCTGTCTGGGGGC
CAGAAGCAGCGCCTGGCCATCGCCCGAGCCCTTATCAAGCAGCCCACGGTGCTGATACTGGATGAAGCT
ACCAGCGCGCTGGATGCAGAGTCCGAGCGGGTTGTACAGGAGGCCCTGGACCGGGCCAGTGCAGGCCGC
ACGGTGCTGGCTGGGACACATGAAGAGCTCCTGAAGAAAGGCGGGCTATACGCCGAGCTCATCCGGAGG
CAGGCCCTGGATGCCCCGAGGACAGCGGCCCCACCGCCCAAAAAGCCAGAAGGCCCCAGGAGCCACCAG
CACAAGTCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

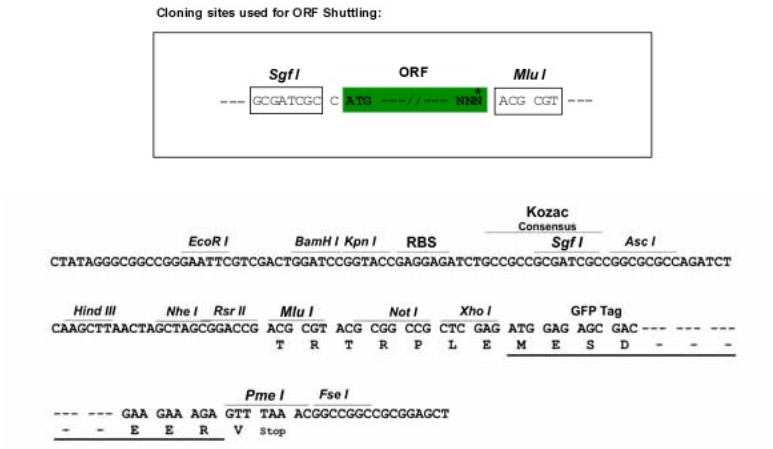
Protein Sequence:

>Peptide sequence encoded by RG239326
Blue=ORF Red=Cloning site Green=Tag(s)

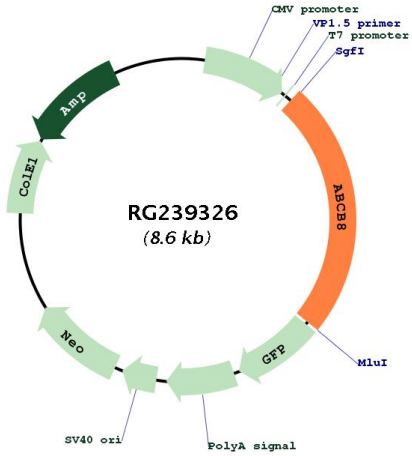
MLVHLFRVGIRGGPFPGRLLPPLRFQTFSAVRYSDGYRSSSLLRAVAHLRSQLWAHLPRAPLAPRWSPS
AWCWVGGALLGPMVLSKHPHLCLVALCEAEEAPPASSTPHVVGSRFNWKLFWQFLHPHLLVLGVAVVLA
LGAALVNVQIPLLLGQLVEVVAKYTRDHVGSFMTESQNLSTHLLILYGVQGLLTFGYLVLLSHVGERMA
VDMRRALFSSLLRQDITFFDANKTGQLVSRLTTDVQEFKSSFKLVISQGLRSCTQVAGCLVSLSMLSTR
LTLLLMVATPALMGVGTLMGSGLRKLSRQCQEQIARAMGVADEALGNVRTVRAFAMEQREEERYGAELE
ACRCRAEELGRGIALFQGLSNIAFNCMVLGTLFIGGSLVAGQQLTGGDLMSFLVASQTVQRSMANLSVL
FGQVVRGLSAGARVFEYMALNPCIPLSGGCCVPKEQLRGSVTFQNVCFSYPCRPGFEVLKDFTLTLPPG
KIVALVGQSGGGKTTVASLLERFYDPTAGVVMLDGRDLRTLDPSWLRGQVVGFISQEPVLFGTTIMENI
RFGKLEASDEEVYTAAREANAHEFITSFPEGYNTVVGERGTTLSGGQKQRLAIARALIKQPTVLILDEA
TSALDAESERVVQEALDRASAGRTVLAGTHEELLKKGGLYAELIRRQALDAPRTAAPPPKKPEGPRSHQ
HKS
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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).
RefSeq:	NM_001282292.2
RefSeq Size:	4609 bp
RefSeq ORF:	2082 bp
Locus ID:	11194
UniProt ID:	Q9NUT2
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]