

Product datasheet for **RG239147**

ABCB8 (NM_001282293) Human Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RG239147 representing NM_001282293.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGAGGGTGAAACTGCTATTGCCGGCGGCTCCTGTTTTACCGCGTCAGCATGCTGGTGCATTTATTTCCG
GGTCGGGATTCGGGGTGGCCATTCCAGGCAGGCTGCTACCGCCCTCCGCTTCCAGACATTCTCAGC
TGTGAGCTGGCCTTGGGTGCGGCACTCGTGAATGTACAGATCCCCCTGCTCCTGGGCCAGCTGGTAGAG
GTCGTGGCCAAGTACACAAGGGACCACGTAGGGAGTTTCATGACTGAGTCCCAGAATCTCAGCACCCAC
CTGCTTATCCTCTATGGTGTCCAGGGACTGCTGACCTTCGGGTACCTGGTGTGCTGTCCACGTTGGC
GAGCGCATGGCTGTGGACATGCGGAGGGCCCTCTCAGCTCCCTGCTCCGACAAGACATCACCTCTTT
GACGCCAATAAGACAGGGCAGCTGGTGAAGCGCTTACAAGTGCAGTGCAGGAGTTAAGTCATCCTTC
AAGCTTGCATCTCCAGGGCTGCGAAGCTGCACCCAGGTGGCAGGCTGCCTGGTGTCCCTGTCCATG
CTGTGACACGCCTCACGCTGCTGATGGTGGCCACACCAGCCCTGATGGGAGTGGGCACCCTGATG
GGCTCAGGCCTCCGAAAATTGTCTCGCCAGTGTGAGGAGCAGATCGCCAGGGCAATGGGCGTAGCAGAC
GAGGCCCTGGGCAATGTGCGGACTGTGCGTGCCTTCGCCATGGAGCAACGGGAAGAGGAGCGCTATGGG
GCAGAGCTGGAAGCCTGCCGCTGCCGGGAGAGGAGCTGGGCCGCGGCATCGCCTTGTTCGAAGGGCTT
TCCAACATCGCCTTCAACTGCATGGTCTTGGGTACCCTATTTATTGGGGCTCCCTTGTGGCCGGACAG
CAGCTGACAGGGGGAGACCTCATGTCTTCTGGTGGCTCCCAGACAGTGCAGAGTCCATGGCCAAC
CTCTCTGTCTGTTTGGGAGGTGGTCCGGGGCTGAGTGCAGGTGCCCGGTCTTTGAGTACATGGCC
CTGAACCCCTGCATCCACTGTCTGGGGCTGCTGCGTCCCCAAGAGCAGCTGCGTGGCTCCGTTACA
TTTCAGAACGCTGCTTACGCTACCCCTGCCGCCCGGCTTCGAGGTGCTGAAAGACTTACCCTGACG
CTGCCCCCTGGCAAGATCGTGGCCCTCGTGGCCAGTCTGGCGGAGGAAAGACCACCGTGCCTTCCCTG
CTGGAGCGCTTCTACGACCCACCGCAGGCGTGGTGTGCTGGATGGGCGGGACCTGCGCACCCCTTGAC
CCCTCCTGGCTCCGGGGCAGGTTGTGCGCTTATCAGCCAGGAGCCCGTCTGTTTGGGACGACCATC
ATGAAAAACATCCGCTTTGGGAAGCTGGAAGCTTCCGATGAAGAGGTGTACACAGCCGCCGGGAAGCG
AATGCTCACGAGTTCATCACCAGCTTCCCCGAGGGCTACAACACGGTCTGCGGTGAACGGGGCACTACC
CTGTCTGGGGCCAGAAGCAGCGCTGGCCATCGCCGAGCCCTTATCAAGCAGCCACGGTGTGATA
CTGGATGAAGCTACCAGCGCGTGGATGCAGAGTCCGAGCGGTTGTACAGGAGGCCCTGGACGGGCC
AGTGCAGGCCGACGGTGTGGTAATTGCCACCGGCTCAGCACTGTCCGTGGGGCCACTGCATTGTC
GTCATGGCCGATGGCCGTCTGGGAGGCTGGGACACATGAAGAGCTCCTGAAGAAAGCGGGCTATAC
GCCGAGCTCATCCGAGGACAGGCCCTGGATGCCCGAGGACAGCGGCCCCACCGCCAAAAGCCAGAA
GGCCCCAGGAGCCACCAGCACAAGTCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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Protein Sequence:

>Peptide sequence encoded by RG239147
 Blue=ORF Red=Cloning site Green=Tag(s)

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MRVKLLLPAAVPLPRQHAGAFISGRDSGWPIPRQAATAPPLPDILSCQLALGAALVNVQIPLLLGLQVLE
VVAKYTRDHVGSFMTESQNLSTHLLILYGVQGLLTFGYLVLLSHVGERMAVDMRRALFSSLLRQDITFF
DANKTGQLVSRLTTDVQEFKSSFKLVISQGLRSCTQVAGCLVLSMLSTRLLLLMVATPALMGVGTLM
GSGLRKLSRQCQEQIARAMGVADEALGNVRTVRAFAMEQREEERYGAELEACRCRAEELGRGIALFQGL
SNIAFNMCMLGTLFIGGSLVAGQQLTGGDLMSFLVASQTVQRSMANLSVLFQGVVRLSAGARVFEYMA
LNPCIPLSGGCCVPKEQLRGSVTFQNVCFSYPCRPGEVLKDFTLTLPPGKIVALVGQSGGGKTTVASL
LERFYDPTAGVVMLDGRDLRTLDPSSLRGQVVGFIQSPEVLFGTTIMENIRFGKLEASDEEYVTAAREA
NAHEFITSPPEGYNVTVGERGTTLSGGQKQRLAIALARALIKQPTVLIIDEATSALDAESERVVQEALDRA
SAGRTVLVIAHRLSTVRGAHCIVMADGRVWEAGTHEELLKKGGLYAELEIRRQALDAPRTAAPPKKE
GPRSHQHKS
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLSLRDGGYSSVVDSSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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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_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]