

Product datasheet for **RG224948**

ABCB8 (NM_007188) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | ABCB8 (NM_007188) 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:

>RG224948 representing NM_007188
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGGTGCATTTATTTTCGGGTCGGGATTCGGGGTGGCCATTCCAGGCAGGCTGCTACCGCCCTCC
 GCTTCCAGACATTCTCAGCTGTCAGGACTCTGATGGCTACCGCAGCTCCTCCCTCCTCCGGCCGTGGC
 CCACCTGCGGTCCAGCTCTGGGCCACCTCCCTCGAGCCCCCTAGCTCCAGATGGAGCCCTCTGCC
 TGGTGTGGGTTGGGGAGCCCTGCTAGGCCCATGGTACTGAGTAAGCATCCCCACCTCTGCCTTGTGG
 CCCTGTGTGAGGCAGAAGAGGCCCTCCTGCCAGCTCCACCCCCATGTCGTGGGGTCTCGCTTAACTG
 GAAGCTCTTCTGGCAGTTTCTGCACCCCCACCTGCTGGTCTGGGGTAGCCGTCGTGCTGGCCTGGGT
 GCGGCACTCGTGAATGTACAGATCCCCCTGCTCCTGGGCCAGCTGGTAAAGGTCGTGGCCAAGTACACAA
 GGGACCACGTAGGAGTTTCATGACTGAGTCCCAGAATCTCAGCACCCACCTGCTATCCTCTATGGTGT
 CCAGGGACTGCTGACCTTCGGGTACCTGGTGTGCTGTCCACGTTGGCGAGCGCATGGCTGTGGACATG
 CGGAGGGCCCTTTCAGCTCCCTGCTCCGACAAAACATCACTTCTTTGACGCCAATAAGACAGGGCAGC
 TGGTGAGCCGCTTGACAACCTGACGTGCAGGAATTTAAGTCATCCTTCAAGCTTGTATCTCCAGGGCT
 GCGAAGCTGCTCCAGGTGGCAGGCTGCCTGGTGTCCCTGTCCATGCTGTGACACGCCTCACGCTGCTG
 CTGATGGTGGCCACACCAGCCCTGATGGGAGTGGGCACCTGATGGGCTCAGGCCCCGAAAATTGTCTC
 GCCAGTGTGAGGAACATATCGCCAGGGCAATGGGCGTAGCAGACGAGGCCCTGGGCAATGTGCGGACTGT
 GCGAGCCTTGGCCATGGAGCAACGGGAAGAGGAGCGCTATGGGGCAGAGCTGGAAGCCTGCCGCTGCCGG
 GCAGAGGAGCTGGGCCCGGCATCGCCTTGTTCGAAGGGCTTCCAACATCGCCTTCAACTGCATGGTCT
 TGGGTACCCTATTTATGGGGCTCCCTTGTGGCCGACAGCAGCTGACAGGGGGAGACCTCATGTCCTT
 CCTGGTGGCCTCCAGACAGTGCAAAGGTCCATGGCCAACCTCTCTGTCTGTTTGGGCAGGTGGTCCGG
 GGGCTGAGTGCAGGTGCCCGGTCTTTGAGTACATGGCCCTGAACCCCTGCATCCCACTGCTGGGGCT
 GCTGCGTCCCAAAGAGCAGCTGCGTGGCTCCGTTACATTTAGAACGTCTGCTTACAGTACCCCTGCCG
 CCCCAGCTTCGAGGTGCTGAAAGACTTACCCTGACGCTGCCCCCTGGCAAGATCGTGGCCCTCGTGGC
 CAGTCTGGCGGAGGAAAGACCACCGTGGCTTCCCTGCTGGAGCGCTTCTACGACCCACGGCAGGCGTGG
 TGATGCTGGATGGGCGGGACCTGCGCACCTTGACCCCTCCTGGCTCCGGGGCCAGGTTGTCGGTTTCAT
 CAGCCAGGAGCCCGTCTGTTTGGGACGACCATCATGGAAAACATCCGCTTTGGGAAGCTGGAAGCTTCC
 GATGAAGAGGTGTACACAGCCGCCCGGGAAGCGAATGCTCAGAGTTCATCACCAGTTTCCCCGAGGGCT
 ACAACACGGTCTGCGGTGAACGGGGCACTACCCTGCTGGGGGCCAGAAGCAGCGCTGGCCATCGCCCC
 AGCCCTTATCAAGCAGCCACCGTGTGATACTGGATGAAGCTACCAGCGCGCTGGATGCAGAGTCCGAG
 CGGGTTGTACAGGAGGCCCTGGACCGGGCCAGTGCAGGCCGCACGGTGTGGTAATTGCCACCGGCTCA
 GCACTGCTCCGTGGGGCCACTGCATTGTGTCATGGCCGATGGCCGTGTCTGGGAGGCTGGGACACATGA
 AGAGCTCCTGAAGAAAGGCGGGCTATACGCCGAGCTCATCCGGAGGCAGGCCCTGGATGCCCCGAGGACA
 GCGGCCACCAGCCAAAAGCCAGAAGGCCCCAGGAGCCACCAGCACAAGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG224948 representing NM_007188
 Red=Cloning site Green=Tags(s)

MLVHLFRVGI RGGPF PGRLLPPLRFQTFSAVRYSDGYRSSSLLRAVAHLRSQLWAHLPRAPLAPRWSPSA
 WCWVGGALLGPMVL SKHPLCLVALCEAEEAPPASSTPHVVGSRFNWKLFWQFLHPHLLVLGVAVLALG
 AALVNVQIPLLLGQLVKVAKYTRDHVGSFMTESQNLSTHLLILYGVQGLLTFGYLVLLSHVGERMAVDM
 RRALFSSLLRQNI TFFDANKTGQLVSRLL TTDVQEFKSSFKLVISQGLRSCSQVAGCLVLSMLSTRLTLL
 LMVATPALMGVGTLMGSLRKL SRQCQEH IARAMGVADEALGNVRTVRALAMEQREEERYGAELEACRCR
 AEELGRGIALFQGLSNI AFNCMVLGTLF IGSSLVAGQQLTGGDLMSFLVASQTVQRSMANLSVLFQGVVR
 GLSAGARVFEYMALNPCIPLSGGCCVPKEQLRGSVTFQNVCFSYPCRPGFEVLKDFTLTLPKIVALVG
 QSGGGKTTVASLLERFYDPTAGVVMLDGRDLRTLDP SWLRGQVVGFI SQEPVLF GTTIMENIRFGKLEAS
 DEEVYTAAREANAHEFITSFPEGYN TVVGERGTTL SGGQKQRLAIARALIKOPTVILDEATSALDAESE
 RVVQEALDRASAGRTVLVIAHRLSTVRGAHCIVMADGRVWEAGTHEELLKKGGLY AELIRRQALDAPRT
 AAPPPKPEGPRSHQHS

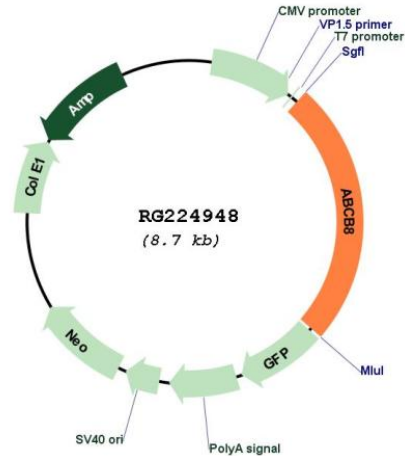
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_007188

ORF Size: 2154 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](#)

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).

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| 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_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: | <p>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]</p> |