

Product datasheet for **RG234756**

ABCB7 (NM_001271697) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABCB7 (NM_001271697) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ABCB7
Synonyms:	ABC7; ASAT; Atm1p; EST140535
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234756 representing NM_001271697
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCTGCTCGCGATGCATTCTTGGCGCTGGGCGGCCGCGCGGCTGCTTTCGAAAAGCGCCGGCACT
 CCGCGATTCTGATCCGGCCTTTAGTCTCTGTTAGCGGCTCAGGTCGCAGTGGAGGCCACATCAACTCGG
 CGCCTTGGGAACCGCTCGAGCCTACCAGATTCCAGAGTCATTAAGAAAGTATCACATGGCAGAGATTGGGA
 AAAGGCAATTCAGGACAGTTCTTAGATGCTGCAAAGGCTCTCCAGGTATGGCCACTGATAGAAAAGAGGA
 CATGTTGGCATGGTCATGCAGGAGGAGGACTCCACACAGACCCAAAAGAAGGGGCCATGAATATTGGT
 TCCCTTCACTGTTAAATATGCTGTAGACAGCCTCAACCAGATGTCGGGAAACATGCTGAACCTGAGTGT
 GCACCAAATACAGTTGCAACCATGGCAACAGCAGTTCTGATTGGCTATGGTGTATCAAGAGCTGGAGCTG
 CTTTTTTAAACGAAGTTCGAAATGCAGTATTTGGCAAGGTAGCCAGAATTCAATCCGAAGAATAGCCAA
 AAATGTCTTTCTCCATCTTCACAACCTGGATCTGGGTTTTACCTGAGCAGACAGACGGGAGCTTTATCT
 AAGGCTATTGACAGAGGAACAAGGGGTATCAGTTTTGTCCTGAGTGTCTTTGGTATTTAATCTTCTCCCA
 TCATGTTTGAAGTGATGCTTGTCACTGGTGTGTTTGTATTACAAATGCGGTGCCAGTTTGTCTTGGTAAAC
 CCTTGGAACACTTGGTACATACACAGCATTACAGTTGCAGTACACCGTGGAGAAGTAGATTTAGAATA
 GAAATGAACAAAGCAGATAATGATGCAGGTAATGCTGCTATAGACTCACTGCTGAATTAAGAACTGTGA
 AGTATTTTAAATGAAAGATATGAAGCACAGAGATATGATGGATTTTGAAGACGTATGAGACTGCTTC
 ATTGAAAAGTACCTCTACTCTGGCTATGCTGAACCTTTGGTCAAAGTGCTATTTTCAGTGTGCGTTTAAAC
 GCTATAATGGTGTGCTCGCCAGTCAGGGAATGTGGCAGTACCCTTACTGTTGGAGATCTAGTAATGGTGA
 ATGGACTGCTTTTTCAGCTTTTCACTACCCCTGAACCTTTCTGGAACTGTATATAGAGAGACTAGACAAGC
 ACTCATAGATATGAACACCTTGTTTACTCTACTCAAGGTAGACACCCAAATTAAGACAAAGTGATGGCA
 TCTCCCTTCAGATCACACCACAGACAGCTACCGTGGCCTTTGATAATGTGCATTTTGAATACATTGAGG
 GCCAGAAAGTCTTAGTGAATATCCTTTGAAGTCCCTGCAGGAAAGAAAGTGGCCATTGTAGGAGGTAG
 TGGGTGAGGAAAGCACAATAGTGAAGCTATTATTTGCTTCTATGAGCCTCAAAGGGTAGCATTAT
 CTTGCTGGTCAAATATACAAGATGTGAGCCTGGAAAGCCTTCGGAGGGCAGTGGGAGTGGTACCTCAGG
 ATGCTGTCCTCTCCATAACTATTTATTACAACCTCTATATGGAAACATCAGTGCTTACCTGAGGA
 AGTGTATGCAGTGGCAAATAGCTGGACTTCATGATGCAATTCTCGAATGCCACATGGATATGACACC
 CAAGTAGGGGAACGAGGACTCAAGCTTTCAGGAGGAGAAAAGCAAAGAGTAGCAATTGCAAGAGCCATTT
 TGAAGGACCCCCAGTCACTCTATGATGAAGCTACTTCATCGTTAGATTGATTACTGAAGAGACTAT
 TCTTGGTGCCATGAAGGATGTGGTCAAACACAGAACTTCTATTTTCATTGCACACAGATTGTCAACAGTG
 GTTGATGCAGATGAAATCATTGTCTTGGATCAGGGTAAGGTAGCCGAACGTGGTACCCACCATGGTTTGC
 TTGCTAACCTCATAGTATCTATTACAGAAATGTGGCATACACAGAGCAGCCGTGTGCAGAACCATGATAA
 CCCCAATGGGAAGCAAAGAAAGAAAATATATCCAAAGAGGAGGAAAGAAAGAACTACAAGAAGAAATT
 GTCAATAGTGTGAAAGGCTGTGAAACTGTTCTGTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234756 representing NM_001271697
 Red=Cloning site Green=Tags(s)

MALLAMHSWRWAAAAAFEKRRHSAILIRPLVSVSGSGPQWRPHQLGALGTARAYQIPESLKSITWQRLG
 KGNSSGQFLDAAKALQVWPLIEKRTCWHGHAGGGLHTDPKEGAMNIVVPMFKYAVDSL NQMSGNMLNLS
 APNTVATMATAVLIGYVSRAGAAFFNEVRNAVFGKVAQNSIRRIAKNVFLHLHNLDLGFHLSRQTGALS
 KAIDRGTRGISFVLSALVFNLLPIMFEVMLVSGVLYYKCGAQFALVTLGTLGTYTAFTVAVTRWRTRFRI
 EMNKADNDAGNAIDSLLNYETVKYFNERYEAQRYDGF LKTYETASLKSTSTLAMLNFGQSAIFSVGLT
 AIMVLA SQIVAGTLTVGDLVMVNGLLFQLSLPLNFLGTVYRETRQALIDMNTLFTLLKVDQTKDKVMA
 SPLQITPQTATVAFDNVHFEYIEGQKVLSGISFEVPAGKKVAIVGGSGSGKSTIVRLLFRFYEPQKGSII
 LAGQNIQDVSLESRRRAVGVPQDAVLFHNTIYNNLLYGNISASPEEVYAVAKLAGLHDAILRMPHG YDT
 QVGERGLKLSGGEKQRVAIARA ILKDPVILYDEATSSLDSITEETILGAMKDVVKHRTSIFIAHRLSTV
 VDAD EII VLDQ GKVAERGTHHGLLANPHSIYSEMWH TQSSRVQNHDPKWEAKKENISKEEERKKLQEEI
 VNSVKGCNCSC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001271697

ORF Size: 2136 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.

RefSeq: [NM_001271697.3](#)

RefSeq Size: 2405 bp

RefSeq ORF: 2139 bp

Locus ID: 22

UniProt ID: [O75027](#)

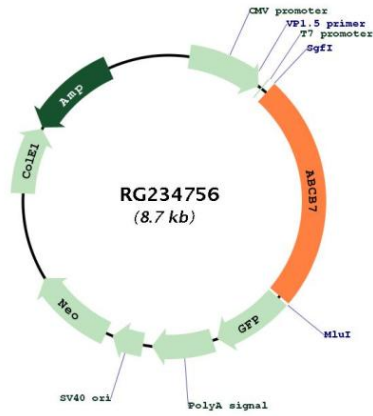
Cytogenetics: Xq13.3

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: ABC transporters

Gene Summary: The membrane-associated protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance as well as antigen presentation. This gene encodes a half-transporter involved in the transport of heme from the mitochondria to the cytosol. With iron/sulfur cluster precursors as its substrates, this protein may play a role in metal homeostasis. Mutations in this gene have been associated with mitochondrial iron accumulation and isodicentric (X)(q13) and sideroblastic anemia. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2012]

Product images:



Circular map for RG234756