

Product datasheet for **RG224122**

ABCB11 (NM_003742) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABCB11 (NM_003742) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ABCB11
Synonyms:	ABC16; BRIC2; BSEP; PFIC-2; PFIC2; PGY4; SPGP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224122 representing NM_003742 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGACTCAGTAATCTTCGAAGTATAAAGAAATTTGGAGAGGAGAATGATGGTTTTGAGTCAGATA
AATCATATAATAATGATAAGAAATCAAGGTTACAAGATGAGAAGAAAGGTGATGGCGTTAGAGTTGGCTT
CTTTCAATTGTTTCGGTTTTCTTCATCAACTGACATTTGGCTGATGTTTGTGGGAAGTTGTGTGCATTT
CTCCATGGAATAGCCCAGCCAGGCGTCTACTCATTTTTGGCACAATGACAGATGTTTTATTGACTACG
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TTCCCTCAACCAGAACATGACAAATGGAACACGTTGTGGGTTGCTGAACATCGAGAGCGAAATGATCAAA
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ATTCAGTGGCTTAGAGATCAGATTGGGATAGTGGAGCAAGAGCCAGTTCTGTTCTCTACCACCATTGCAG
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AGGAGCCTACTACAACTAGTACCACCTGGATCCCCATCAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG224122 representing NM_003742
 Red=Cloning site Green=Tags(s)

MSDSVILRSIKKFGGEENDGFESDKSYNNDKKSRLQDEKKGDGVRVGFQFLFRFSSSTDIWLMFVGSLSLCAF
 LHGIAQPGVLLIFGTMTDVFIDYDVELQELQIPGKACVNNITVWNTSSLNQNMTNGTRCGLLNIESEMIK
 FASYIYAGIYAVAVLITGYIQCWFVIAAARQIQKMRKFYFRIRMRMEIGWFDNCNSVDELNTRFSDDINKIN
 DAIAQDMALFIQRTSTICGFLLGFFRGWKLTLVVISVPLIGIGAATIGLSVSKFTDYELKAYAKAGVV
 ADEVISSMRTVAAFGGEKREVEREYKENVFAQRWGIKGIWGMFFTFGVWCLIFLCYALAFYWGSTLVLD
 EGEYTPGLTVQIFLSVIVGALNLGNASPCLEAFATGRAAATSIFETIDRKPIDDCMEDGYKLDRIKGEI
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 SQLSYLVHEPPLAVVDHKSTYEEDRKDKDIPVQEEVEPAPVRRILKFSAPWYMLVGSVGAANGVTPTP
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 GQDIAWFDLRLNSPGALTTRLATDASVQGAAGSQIGMIVNSFTNVTVAMIIAFSFSWKLVLVILCFFPF
 LALSGATQTRMLTGFASRDKQALEMVGQITNEALSNIRTVAGIGKERRFIEALETELEKPFKTAIQKANI
 YGFCFAFAQCIMFIANSASYRYGGYLISNEGLHFSYVFRVISA VVLSATALGRAFSYTPSYAKAKISAAR
 FFQLLDRQPPISVYNTAGEKWDNFQGKIDFVDCCKFTYSPRPDSQVLNGLSVSISPGQTLAFVSSGCGKS
 TSIQLLERFYDPDQGVKVIDGHDSKKVNVQFLRSNIGIVSQEPVLFACSIMDNIKYGDNTKEIPMERVIA
 AAKQAQLHDFVMSLPEKYETNVGSQGSQLSRGEKQRIAIARAIVRDPKILLLDEATSALDTESEKTVQVA
 LDKAREGRTCIVIAHRLSTIQNADIIAVMAQGVVIEKGTHEELMAQKGAYYKLVTTGSPIS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_003742

ORF Size: 3963 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).

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_003742.4](#)

RefSeq Size: 4775 bp

RefSeq ORF: 3966 bp

Locus ID: 8647

UniProt ID: [O95342](#)

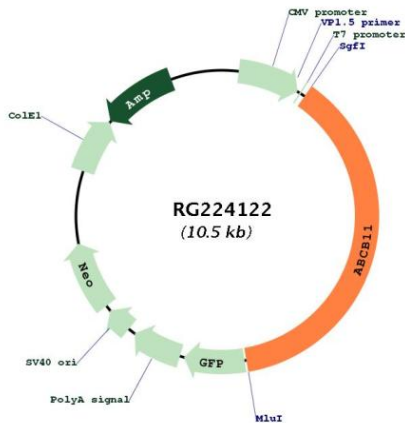
Cytogenetics: 2q31.1

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. The protein encoded by this gene is the major canalicular bile salt export pump in man. Mutations in this gene cause a form of progressive familial intrahepatic cholestases which are a group of inherited disorders with severe cholestatic liver disease from early infancy. [provided by RefSeq, Jul 2008]

Product images:


Circular map for RG224122