

Product datasheet for RC212987

ABCB4 (NM_018850) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ABCB4 (NM_018850) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ABCB4
Synonyms: ABC21; GBD1; ICP3; MDR2; MDR2/3; MDR3; PFIC-3; PGY3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC212987 representing NM_018850
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCTTGAGGCGCAAAGAACGGAACAGCCTGGCGCCCCACGAGCGCGGAGGGCGACTTTGAACTGG
GCATCAGCAGCAAACAAAAAGGAAAAACGAAGACAGTGAAAAATGATTGGAGTATTAACATTGTTTCG
ATACTCCGATTGGCAGGATAAAATGTTTATGTCGCTGGGTACCATCATGGCCATAGCTCAGGGATCAGGT
CTCCCCCTCATGATGATAGTATTTGGAGAGATGACTGACAAATTTGTTGATACTGCAGGAAACTTCTCCT
TTCCAGTGAACCTTTCTTGTGCTGCTAAATCCAGGCAAAATCTGGAAGAAGAAATGACTAGATATGC
ATATTACTACTCAGGATTGGGTGCTGGAGTTCTTGTGCTGCCTATATACAAGTTTCATTTTGGACTTTG
GCAGCTGGTTCGACAGATCAGGAAAATTAGGCAGAAGTTTTTTCATGCTATTCTACGACAGGAAATAGGAT
GGTTTGACATCAACGACACCACTGAACCTCAATACGCGGCTAACAGATGACATCTCCAAAATCAGTGAAGG
AATTGGTGACAAGGTTGGAATGTTCTTTCAAGCAGTAGCCACGTTTTTTGCAGGATTCATAGTGGGATTC
ATCAGAGGATGGAAGCTCACCTTGTGATAATGGCCATCAGCCCTATTCTAGGACTCTCTGCAGCCGTTT
GGCAAAGATACTCTCGGCATTTAGTGACAAAGAACTAGCTGCTTATGCAAAGCAGGCGCCGTCGACAGA
AGAGGCTCTGGGGCCATCAGGACTGTGATAGCTTTTCGGGGCCAGAACAAGAGCTGGAAGGTATCAG
AAACATTTAGAAAATGCCAAAGAGATTGGAATTAAGAAAGCTATTTTCAGCAAACATTTCCATGGGTATTG
CCTTCTGTTAATATATGCATCATATGCACTGGCCTTCTGGTATGGATCCACTCTAGTCATATCAAAGA
ATATACTATTGGAAATGCAATGACAGTTTTTTTTCAATCCTAATTGGAGCTTTTCAGTGTGGCCAGGCT
GCCCCATGATTGATGCTTTTGCCAAATGCAAGAGGAGCAGCATATGTGATCTTTGATATTATTGATAATA
ATCCTAAAATTGACAGTTTTTCAGAGAGAGGACACAAACCAGACAGCATCAAAGGGAATTTGGAGTTCAA
TGATGTTCACTTTTCTTACCCTTCTCGAGCTAACGTCAAGATCTTGAAGGGCCTCAACCTGAAGGTGCAG
AGTGGGCAGACGGTGGCCCTGGTTGGAAGTAGTGGCTGTGGGAAGAGCACAAACGGTCCAGCTGATACAGA
GGCTCTATGACCCTGATGAGGGCACAATTAACATTGATGGCAGGATATTAGGAACCTTAATGTAACCTA
TCTGAGGGAAATCATTGGTGTGGTGAAGTCAAGGAGCCGGTCTGTTTTCCACCACAATTGCTGAAAATATT
TGTTATGGCCGTGGAATGTAACCATGGATGAGATAAAGAAAGCTGTCAAAGAGGCCAACGCCTATGAGT



TTATCATGAAATTACCACAGAAATTTGACACCCTGGTTGGAGAGAGAGGGGCCAGCTGAGTGGTGGCA
GAAGCAGAGGATCGCCATTGCACGTGCCCTGGTTCGCAACCCCAAGATCCTTCTGCTGGATGAGGCCACG
TCAGCATTGGACACAGAAAGTGAAGCTGAGGTACAGGCAGCTCTGGATAAGGCCAGAGAAGGCCGACCA
CCATTGTGATAGCACACCCGACTGTCTACGGTCCGAAATGCAGATGTCATCGCTGGGTTTGGAGTGGAGT
AATTGTGGAGCAAGGAAGCCACAGCAGCACTGATGAAGAAGGAAGGGGTGACTTCAAACCTTGCAACATG
CAGACATCAGGAAGCCAGATCCAGTCAGAAGAATTTGAACTAAATGATGAAAAGGCTGCCACTAGAATGG
CCCCAAATGGCTGGAAATCTCGCCTATTTAGGCATTCTACTCAGAAAAACCTTAAAAATTCACAAATGG
TCAGAAGAGCCTTGATGTGGAAACCGATGGACTTGAAGCAAATGTGCCACCAAGTGCCTTTCTGAAGGTC
CTGAAACTGAATAAAACAGAATGGCCCTACTTTGTCGTGGGAACAGTATGTGCCATTGCCAATGGGGGGC
TTCAGCCGGCATTTCAGTCATATTCTCAGAGATCATAGCGATTTTGGACCAGGCGATGATGCAGTGAA
GCAGCAGAAGTGAACATATTCTCTTTGATTTTCTTATTCTGGGAATTTTCTTTTTTTACTTTCTTC
CTTCAGGGTTTCAGTGGGAAAGCTGGCGAGATCCTCACCAGAAGACTGCGGTCAATGGCTTTTAAAG
CAATGCTAAGACAGGACATGAGCTGGTTTGTGACCATAAAAACAGTACTGGTGCCTTTCTACAAGACT
TGCCACAGATGCTGCCAAGTCCAAGGAGCCACAGGAACCAGGTTGGCTTAATTGCACAGAATATAGCT
AACCTTGGAACTGGTATTATCATATCATTATCTACGGTTGGCAGTTAACCTATTGCTATTAGCAGTTG
TTCCAATTATTGCTGTGTGAGGAATTTGAAATGAAATTTGGCTGGAAATGCCAAAAGAGATAAAAA
AGAACTGGAAGCTGCTGGAAAGATTGCAACAGAGGCAATAGAAAATATTAGGACAGTTGTGTCTTTGACC
CAGGAAAGAAAATTTGAATCAATGTATGTTGAAAATTTGTATGGACCTTACAGGGTGTCTTGTGCAATTG
TATTTGGTGCAGTGGCTCTAGGACATGCCAGTTTCAATTTGCTCCAGACTATGCTAAAGCTAAGCTGTCTGC
AGCCCACTTATTCATGCTGTTTGAAGACAACCTCTGATTGACAGCTACAGTGAAGAGGGGCTGAAGCCT
GATAAATTTGAAGGAAATATAACATTTAATGAAGTCGTGTTCAACTATCCACCCGAGCAAACGTGCCAG
TGCTTCAGGGGCTGAGCCTGGAGGTGAAGAAAGCCAGACACTAGCCCTGGTGGCAGCAGTGGCTGTGG
GAAGAGCACGGTGGTCCAGCTCCTGGAGCGTTCTACGACCCCTTGGCGGGGACAGTGTCTCGATGGT
CAAGAAGCAAAGAACTCAATGTCCAGTGGCTCAGAGCTCAACTCGGAATCGTGTCTCAGGAGCCTATCC
TATTTGACTGCAGCATTGCCGAGAATATTGCCTATGGAGACAACAGCCGGGTTGTATCACAGGATGAAAT
TGTGAGTGCAGCCAAAGCTGCCAACATACATCCTTTTCATCGAGACGTTACCCACAAAATATGAAACAAGA
GTGGGAGATAAGGGGACTCAGCTCTCAGGAGGTCAAAAACAGAGGATTGCTATTGCCGAGCCCTCATCA
GACAACCTCAAATCCTCCTGTTGGATGAAGCTACATCAGCTCTGGATACTGAAAGTAAAAGGTTGTCCA
AGAAGCCCTGGACAAAGCCAGAGAAGGCCGCACCTGCATTGTGATTGCTCACCCTGTCCACCATCCAG
AATGCAGACTTAATAGTGGTGTTCAGAATGGGAGAGTCAAGGAGCATGGCACGCATCAGCAGCTGCTGG
CACAGAAAGGCATCTATTTTCAATGGTCAAGTGTCCAGGCTGGGACACAGAACTTA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC212987 representing NM_018850
 Red=Cloning site Green=Tags(s)

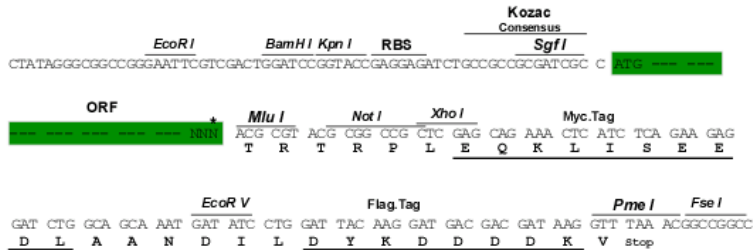
MDLEAAKNGTAWRPTSAEGDFELGISSKQKRKKTVMIGVLTFRYSDWQDKLFMSLGTIMAI AHGSG
 LPLMMIVFGEMTDKFDVTAGNFSFPVNFSL SLLNPGKILEEEMTRYAYYSGLGAGVLAAYIQVSFWTL
 AAGRQIRKIRQKFFHAILRQEIGWFDINDTTELNTRLTDDISKISEGIGDKVGMFFQAVATFFAGFIVGF
 IRGWKLTIVIMAI SPILGL SAAVWAKILSAFSDKELAAAYAKAGAVAEALGAIRTVIAFGGQNKELERYQ
 KHLENAKEIGIKKAI SANISMGIAFLLIYASYALAFWYGSTLVISKEYTIGNAMTVFFSILIGAFSVGQA
 APCIDAFANARGAAYVIFDIIDNNPKIDSF SERGHKPD SIKGNLEFNDVHF SYPSRANVKILKGLNLKVQ
 SGQTVALVGS SGC GKSTTVQLIQRLYDPDEGTINIDGQDIRNFVNYLREIIGVVSQEPVLFSTTIAENI
 CYGRGNTMDEIKKAVKEANAYEFIMKLPQKFDTLVGERGAQLSGGQKRIARALVRNPKILLDEAT
 SALDTESEAEVQAALDKAREGRTTIVIAHRLSTVRNADVIAGFEDGVIVEQGSHSELMKKEGVYFKLVNM
 QTSGSQIQSEEFELNDEKAATRMANGWKSRLFRHSTQKNL KNSQMCQKSLDVETDGL EANVPPVSFLKV
 LKLNKTEWPYFVVGTVCAIANGGLQPAFSVIFSEIIAIFGPGDDAVKQKCNIFSLIFLFLGIISFFTF
 LQGFTFGKAGEILTRRLRSMFAKAMLRQDMSWFDHKNSTGALSTRLATDAAQVQATGTRLALIAQNI
 NLGTGIIISFIYGWQLTLLLAVVPIIAVSGIVEMKLLAGNAKRDKKELEAAGKIATEAIENIRTVVSLT
 QERKFESMYVEKLYGYPYVFS AIVFGAVALGHASSFAPDYAKAKLSAAHLFMLFERQPLIDSYSEGLKP
 DKFEGNITFNEVFNYPTRANV PVLQGLSLEVKKGQTLALVGS SGC KSTVVQLLERFYDPLAGTVLLDG
 QEAKKLNQWLR AQLGIVSQEPILFDCSIAENIAYGDNSRVVSQDEIVSAAKAANIHPFIETLPHKYETR
 VGDKGTQLSGGQKQRIARALIRQPQILLDEATSALDTESEKVVQ EALDKAREGRTCI VIAHRLSTIQ
 NADLIVVFQNGRVKEHGTHOQLLAQKGIYFSMVSVOAGTQNL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: ABC transporters

MW: 135.3 kDa

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 full transporter and member of the p-glycoprotein family of membrane proteins with phosphatidylcholine as its substrate. The function of this protein has not yet been determined; however, it may involve transport of phospholipids from liver hepatocytes into bile. Alternative splicing of this gene results in several products of undetermined function. [provided by RefSeq, Jul 2008]