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Product datasheet for MR227343

Abcb1b (NM_011075) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abcb1b (NM_011075) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Abcb1b
Synonyms:	Abcb1; mdr; Mdr1; Mdr1b; Pgy-1; Pgy1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR227343 representing NM_011075
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

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CGAGAAGATGTCACCATGGATGAGATTGAGAAAGCTGTCAAGGAAGCCAATGCCTATGACTTCATCATGA
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Protein Sequence:

>MR227343 representing NM_011075
Red=Cloning site Green=Tags(s)

MEFEENLKGRADKNFSKMGKKSKKEKKEKKPAVGVFGMFRYADWLDKLCMILGTLAAIIHGTLLPLLMLV
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QKGIYFSMVQAGAKRS

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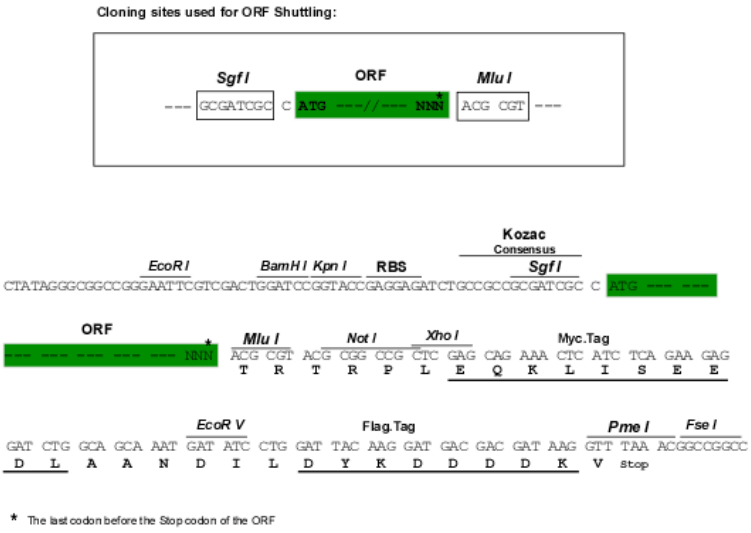
Chromatograms: https://cdn.origene.com/chromatograms/mm9094_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



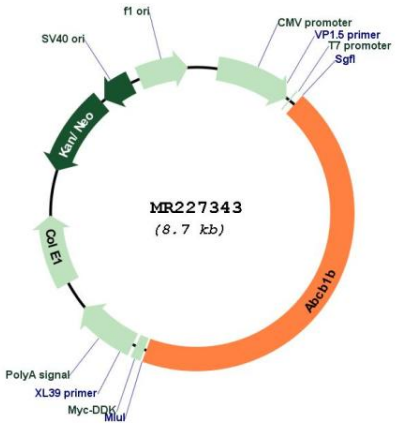
ACCN: NM_011075

ORF Size: 3828 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_011075.2, NP_035205.1
RefSeq Size:	4344 bp
RefSeq ORF:	3831 bp
Locus ID:	18669
UniProt ID:	P06795
Cytogenetics:	5 3.43 cM
MW:	141 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. This gene encodes a membrane glycoprotein which confers a multidrug-resistance phenotype. The protein encoded by the human gene is an ATP-dependent drug efflux pump for xenobiotic compounds which is responsible for decreased drug accumulation in multidrug-resistant cells and mediates the development of resistance to anticancer drugs. [provided by RefSeq, Jul 2008]

Product images:



Circular map for MR227343