

Product datasheet for **MR209819**

Abcg2 (NM_011920) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abcg2 (NM_011920) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Abcg2
Synonyms:	ABC15; ABCP; AI428558; BCRP; Bcrp1; MXR; MXR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR209819 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGCTTCCAGTAATGACCACGTGTTAGTACCAATGTCGCAGAGAAAACAACAACGGCCTTCTAGGACGA
ACTCCAGAGCCGTTAGGACGCTCGCAGAAGGAGATGTGTTGAGTTTTATCACATCACCTATCGAGTGAA
AGTAAAGAGTGGGTTTCTAGTCCGAAAACAGTTGAGAAAAGAAATACTATCAGATATCAATGGGATCATG
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CAAGGAAAGATCCAAAGGGATTATCTGGAGATGTTTTGATAAATGGAGCACCTCAACCTGCCACTTCAA
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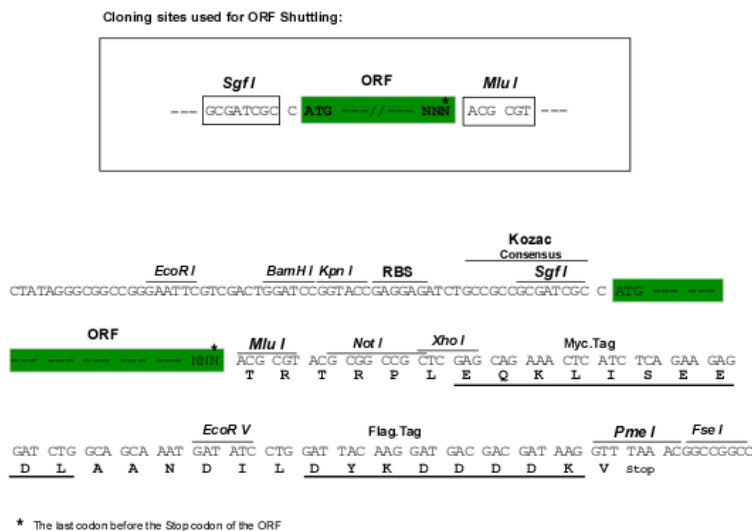
Protein Sequence: >MR209819 protein sequence
Red=Cloning site Green=Tags(s)

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MSSSNDHVLVPM SQRRNNGLPRTNSRAVRTLAEGDVL SFHHITYRVKVKSGFLVRKTVEKEILSDINGIM
KPGLNA ILGPTGGGKSSLLDVL AARKDPKGLSGDVLINGAPQPAHFKCCSGYVVQDDVVMGTLTVRENLQ
FSAALRLPTTMKNHEKNERINTI IKELGLEKVADSKVGTQFIRGISGGERKRTSIGMELITDPSILFLDE
PTTGLDSS TANAVLLLLKRMSKQGR TII FSIHQPRYSIFKLFDSL TLLASGKLVFHGPAQKALEYFASAG
YHCEPYNNPADFFLDVINGDSSAVMLNREEQDNEANKTEEPSKGEKPV IENLSEFYINSAIYGETKAELD
QLPGAQEKKGTS AFKEPVYVTSFCHQLRWIARRSFKNLLGNPQASVAQLIVTVILGLIIGAIYFDLKYDA
AGMQNRAGV LFFLT TNQCFSSVSAVELFVVEKKLFIHEYISGYRVS SYFFGKVMSDL LPMRFLPSVIFT
CVLYFMLGLKKTVD AFFIMMFTLIMVAYTASSMALAIATGQSVSVATLLMTIAFVFMMLFSGLLVNLRT
IGPWL SWLQYFSIPRYGFTALQYNEFLGQEFCPGFNVTDNSTCVNSYAICTGNEYLINQGIELSPWGLWK
NHVALACMI IIFLTIAYLKLFLKKYS
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011920

ORF Size: 1971 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_011920.1](#), [NM_011920.2](#), [NM_011920.3](#), [NP_036050.1](#)

RefSeq Size: 2493 bp

RefSeq ORF: 1974 bp

Locus ID: 26357

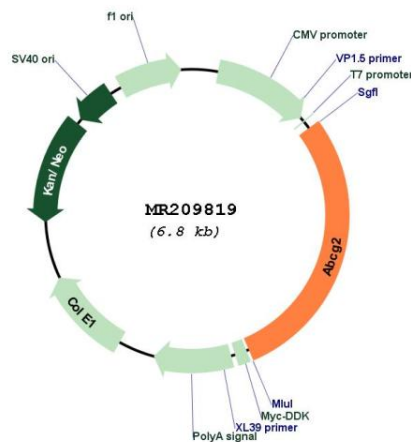
UniProt ID: [Q7TMS5](#)

Cytogenetics: 6 27.82 cM

MW: 73 kDa

Gene Summary: The membrane-associated protein encoded by this gene is included in 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 White subfamily. Alternatively referred to as a breast cancer resistance protein, the human protein functions as a xenobiotic transporter which may play a major role in multi-drug resistance. This protein likely serves as a cellular defense mechanism in response to mitoxantrone and anthracycline exposure. [provided by RefSeq, Jul 2008]

Product images:



Circular map for MR209819