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Product datasheet for MR219074

Abca7 (NM_013850) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abca7 (NM_013850) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Abca7
Synonyms:	Abc51; ABCX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR219074 representing NM_013850
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

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Protein Sequence:

>MR219074 representing NM_013850
Red=Cloning site Green=Tags(s)

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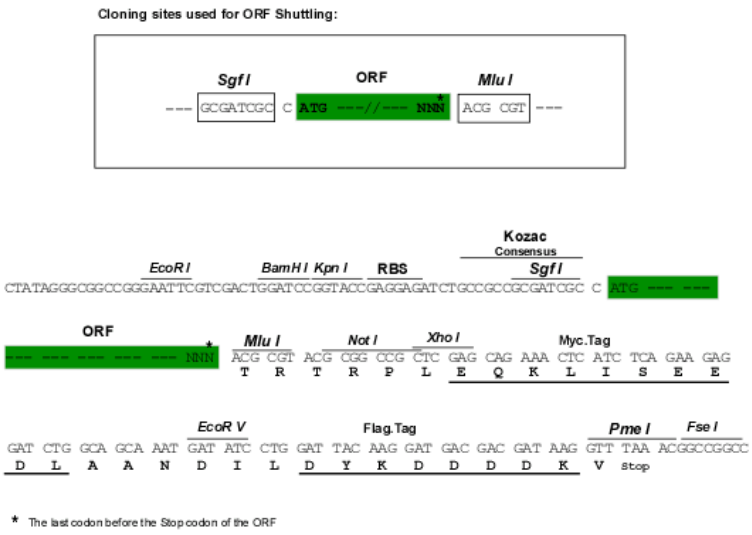
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9010_h10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013850

ORF Size: 6477 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_013850.2

RefSeq Size: 6607 bp

RefSeq ORF: 6480 bp

Locus ID: 27403

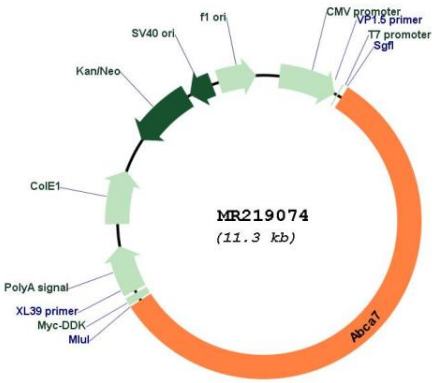
UniProt ID: Q91V24

Cytogenetics: 10 39.72 cM

MW: 237.3 kDa

Gene Summary: The 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 intracellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the ABC1 subfamily. Members of the ABC1 subfamily comprise the only major ABC subfamily found exclusively in multicellular eukaryotes. This protein is widely expressed with highest detection in spleen and hematopoietic tissues. Defects in this gene cause an increase in amyloid-beta deposits in a mouse model of Alzheimer's disease, and a related human protein is thought to play a role in lipid homeostasis in cells of the immune system. [provided by RefSeq, Jan 2017]

Product images:



Circular map for MR219074