

Product datasheet for **MR223933**

Abcc9 (NM_001044720) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Abcc9 (NM_001044720) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Abcc9
Synonyms: AI414027; AI449286; SU; SUR; Sur2; SUR2A; SUR2B
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR223933 representing NM_001044720
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGGATCGCC

ATGAGCCTTTCTTTTGTGGGAACAACATCTCCTCCTACAACATCTATTATGGTGTCTCCAAAACCCCT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >MR223933 representing NM_001044720
 Red=Cloning site Green=Tags(s)

MSLSFCGNNISSYNIYYGVLQNPCFVDALNLVPHVFLFITFPILFIGWGSQSSKVQIHHNTWLHFPGH
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 LGVRFLOPFVNLLSKATYWMNTLII SAHRKPIDLKAIGKLP IAMRAVTNYVCLKEAYEEQKKAADHPN
 RTPSIWLAMRYAFGRPILLSSTFRYLADLLGFAGPLCISGIVQRVNEKTNTTREMFPETLSSKEFLENA
 VLAVLLFLALILQRTFLQASYVYTIETGINLRGALLAMIYNKILRLSTSNLSMGEMTLGQINNLVAIETN
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 VALAPLGVAFYFIQKYFRVASKDLQELDDSTQLPLLCHFSETAEGLTIRAFRHETRFKQRMLELTD TNN
 IAYLFLSAANRWLEVRTDYL GACIVL TASIASISGSSNSGLVGLGLLYALTITNYLNWVVRNLADLEVQM
 GAVKKVNSFLTMESENYEGTMDPSQVPEHWPQEGEIKIHDLCVRYENNLKPVLLKHKYAIKPGQKVGICG
 RTGSGKSSLSLAFRMDIFDGIKVIDGIDISKPLHLRLSRLSILQDPILFSGSIRYFNLDPECKCTDD
 RLWEALIAQLKNMVKSLPGGLDATVTEGGENF SVGQRQLFCLARAFVRKSSILIMDEATASIDMATENI
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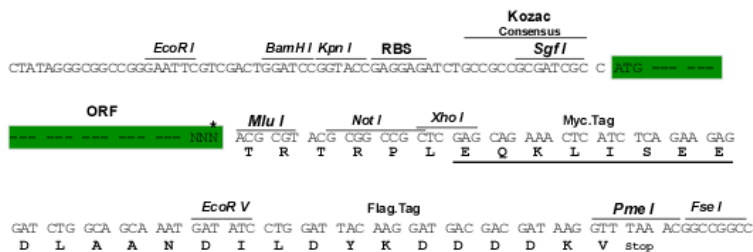
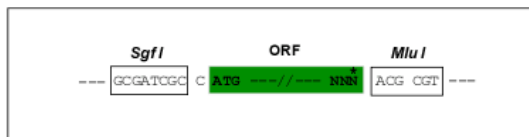
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

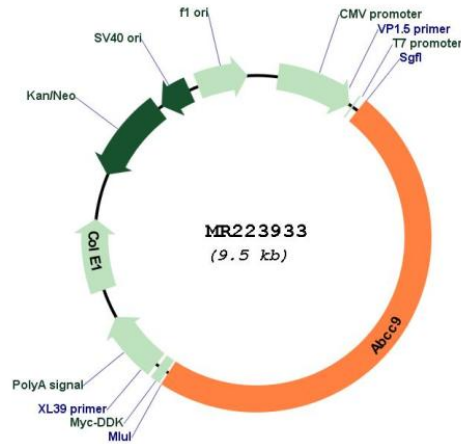
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


- ACCN:** NM_001044720
- ORF Size:** 4599 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_001044720.1](#), [NP_001038185.1](#)

RefSeq Size: 7499 bp

RefSeq ORF: 4602 bp

Locus ID: 20928

UniProt ID: [P70170](#)

Cytogenetics: 6 74.35 cM

MW: 173.3 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 MRP subfamily which is involved in multi-drug resistance. The human protein is thought to form ATP-sensitive potassium channels in cardiac, skeletal, and vascular and non-vascular smooth muscle. Protein structure suggests a role as the drug-binding channel-modulating subunit of the extrapancreatic ATP-sensitive potassium channels. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jul 2015]