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Product datasheet for SC124215

MRP1 (ABCC1) (NM_019902) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRP1 (ABCC1) (NM_019902) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRP1
Synonyms:	MRP, ABCC, GS-X, MRP1, ABC29, DKFZp781G125, DKFZp686N04233
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC124215 sequence for NM_019902 edited (data generated by NextGen Sequencing)

```
ATGGCGCTCCGGGGCTTCTGCAGCGCCGATGGCTCCGACCCGCTCTGGGACTGGAATGTC
ACGTGGAATACCAGCAACCCCGACTTCACCAAGTGCTTTCAGAACACGGTCCTCGTGTGG
GTGCCTTGTTTTTACCTCTGGGCCTGTTTCCCCTTCTACTTCCTCTATCTCTCCCGACAT
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ACCTTTTTAATTCAGCTGGAGAGGAGGAAGGGAGTTCAGTCTTCAGGGATCATGCTCACT
TTCTGGCTGGTAGCCCTAGTGTGTGCCCTAGCCATCCTGAGATCCAAAATTATGACAGCC
TTAAAAGAGGATGCCCAGGTGGACCTGTTTCGTGACATCACTTTCTACGTCTACTTTTCC
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CGGATCAAGCTGATGAACGAAATTCTCAATGGGATCAAAGTGCTAAAGCTTTATGCCTGG
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GCCCCATCGGACCTCCTGCAGCAGAGAGGTCTTTTCTACAGCATGGCCAAAGACGCCGGC
TTGGTGTGA

Clone variation with respect to NM_019902.1

350 c=>t;825 t=>c;1062 t=>c

5' Read Nucleotide Sequence:

```
>OriGene 5' read for NM_019902 unedited
ACCCCCGCCCCGTTGNCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCA
GAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTTCTTTTTGCAGCGGCCGCGA
ATTCGGCACGAGGCCGGCATGGCGCTCCGGGGCTTCTGCAGCGCCGATGGCTCCGACCCG
CTCTGGGACTGGAATGTCACGTGGAATACCAGCAACCCCGACTTCACCAAGTGCTTTCAG
AACACGGTCCTCGTGTGGGTGCCTTGTTTTTACCTCTGGGCCTGTTTCCCCTTCTACTTC
CTCTATCTCTCCCGACATGACCGAGGCTACATTCAGATGACACCTCTCAACAAAACCAAA
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GAAAGAAGTCGGGGCATATTCCTGGCCCCAGTGNTTCTGGTCAGCCCAACTCTCTTGGGC
ATCACCATGCTGCTTGCTACCTTTTTAATTCCCCGGAGATCACCACCCCTTCCACTCTCC
CCCTTTCCCTTCCTCCCCTCCTCCCGCNNNNNNNNNNCNNNCNNCNNCCCNNNNNNTCNN
NNCCCNCCNNNCCCNCCCCCCCCCCCCCNCCCCNCCCCCNCCTCCCCCCCCCCCCCCCNN
NCCNCCCCCCCCCCCCCCCCCCCCCCCCNCCCCCCCCCCTCCCCCCNCNCCCCCCCCCGC
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CCTCNCNCCCCACCCCCCCCCCNCCCCCCCCCCCCCCCCCCNCNCCNCCNNCCCCNCNCC
CCCCNNNCCCCCCCCCCCNNCCCNNNCCCCCCCCCCCCCCCCCCCCNNCCCCCCCCCCCC
CCCCCCCNCTTCTTTTCCTCCCCTTCTCTCCCTTCTTCCCCCCN
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Restriction Sites: NotI-NotI

ACCN: NM_019902

Insert Size: 6000 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_019902.1, NP_063957.1

RefSeq Size: 5780 bp

RefSeq ORF: 4449 bp

Locus ID: 4363

Cytogenetics: 16p13.11

Domains: ABC_membrane, ABC_tran, AAA

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: ABC transporters

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 intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This full transporter is a member of the MRP subfamily which is involved in multi-drug resistance. This protein functions as a multispecific organic anion transporter, with oxidized glutatione, cysteinyl leukotrienes, and activated aflatoxin B1 as substrates. This protein also transports glucuronides and sulfate conjugates of steroid hormones and bile salts. Alternatively spliced variants of this gene have been described but their full-length nature is unknown. [provided by RefSeq, Apr 2012]
Transcript Variant: This variant (7) lacks exon 13, as compared to the predominant, full-length transcript variant 1. This results in a 49-amino acid in-frame deletion in the coding region.