

Product datasheet for **SC214211**

MRP5 (ABCC5) (NM_005688) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	MRP5 (ABCC5) (NM_005688) Human 3' UTR Clone
Symbol:	MRP5
Synonyms:	ABC33; EST277145; MOAT-C; MOATC; MRP5; pABC11; SMRP
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_005688
Insert Size:	1396 bp



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Insert Sequence: >SC214211 3'UTR clone of NM_005688
The sequence shown below is from the reference sequence of NM_005688. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon **Red**=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAGCGATCGCC
GCAGAGAACAAAGTCGCTGTCAAGGGCTGACTCCTCCCTGTTGACGAAGTCTCTTTTCTTTAGAGCATT
GCCATTCCCTGCCTGGGGCGGGCCCTCATCGCTCCTCCTACCGAAACCTTGCCCTTTCTCGATTTTAT
CTTTCGCACAGCAGTTCCGGATTGGCTTGTGTGTTTCACTTTTAGGGAGAGTCATATTTGATTATTGT
ATTTATTCATATTCATGTAAACAAAATTTAGTTTTTGTCTTAATTGCACTCTAAAAGTTTCAGGGAA
CCGTTATTATAATTGTATCAGAGGCCTATAATGAAGCTTTATACGTGTAGCTATATCTATATATAATTC
TGTACATAGCCTATATTTACAGTGAAAATGTAAGCTGTTTATTTTATATTAATAAAGCACTGTGCTAA
TAACAGTGCATATTCCTTTCTATCATTTTTGTACAGTTTGCTGTACTAGAGATCTGGTTTTGCTATTAG
ACTGTAGGAAGAGTAGCATTTTCATTCTTCTCTAGCTGGTGGTTTACGGTGCCAGGTTTTCTGGGTGTC
CAAAGGAAGACGTGTGGCAATAGTGGGCCCTCCGACAGCCCCCTTGCCGCCTCCCCACGGCCGCTCCA
GGGGTGGCTGGAGACGGGTGGGCGGCTGGAGACCATGCAGAGCGCCGTGAGTTCTCAGGGCTCCTGCCT
TCTGTCCTGGTGTCACTTACTGTTTCTGTGAGGAGCAGCGGGCGAAGCCCAGGCCCTTTTCACTC
CCTCCATCAAGATGGGGATCACAGAGACATTCTCCGAGCCGGGGAGTTTCTTCTGCTTCTTCTT
TTTGCTGTTGTTTCTAAACAAGATCAGTCTATCCACAGAGAGTCCCACTGCCTCAGGTTTCTATGGCT
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TGAGGTGGCACTTTTTCATTTGCCTATTCCACACCTCCACAGTTCAGTGGCAGGGCTCAGGATTTTCTG
GGGTCTGTTTTCTTTCTCACCGCAGTCGTCACAGTCTCTCTCTCTCTCCCTCAAAGTCTGCAA
CTTTAAGCAGCTCTTGCTAATCAGTGTCTCACACTGGCGTAGAAGTTTTTGTACTGTAAAGAGACCTAC
CTCAGGTTGCTGGTTGCTGTGTGGTTGGTGTGTTCCCGCAAACCCCTTTGTGCTGTGGGGCTGGTAG
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TTCTGTCGCCTTAGCATGTTTGCTGAACACCTTGGAAGCAAAAATCTGAAAATGTGAATAAAATTAT
TTTGGATTTTGAAAA
ACGCGTAAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: NM_005688.4

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 protein is a member of the MRP subfamily which is involved in multi-drug resistance. This protein functions in the cellular export of its substrate, cyclic nucleotides. This export contributes to the degradation of phosphodiesterases and possibly an elimination pathway for cyclic nucleotides. Studies show that this protein provides resistance to thiopurine anticancer drugs, 6-mercaptopurine and thioguanine, and the anti-HIV drug 9-(2-phosphonylmethoxyethyl)adenine. This protein may be involved in resistance to thiopurines in acute lymphoblastic leukemia and antiretroviral nucleoside analogs in HIV-infected patients. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]

Locus ID:

10057

MW:

52