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Product datasheet for SC101361

MRP5 (ABCC5) (AK090667) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRP5 (ABCC5) (AK090667) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRP5
Synonyms:	ABC33; EST277145; MOAT-C; MOATC; MRP5; pABC11; SMRP
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for AK090667, the custom clone sequence may differ by one or more nucleotides

CATTCCTCTGGGTAGCACCATATGCAGGCTTTGCGAATAAAGTGATCATGGGCTTTCTTGATTCCATTTG
GCCAATGCAAGAACTTCATTGGCTCCCCTCTAAAAAAAATTCCATGGATTGCTGGGATTTTTATTTTTTA
TTTTTTGAAAAAAATGGTACCTATCCGTATTCAGCTTGGTGGCTTCACAGTCCCTCCCCTGAACATCCGT
ATATTCCTTATTCTCTCATTTATGGTGCAGAACACTGGGGTACTAACCTCTAGGAAACTGTTCTAGCTGC
CAGGGAAAGCTAAGAGCCCTCCTTTAACAGGAAAGCAGCAGCATGCTTTTTCTTCTCTCTGCCGTTTCAG
GGAAGAGCACCTTAAGGCCAGTGTTATTTCATGGGATTCTGTCCTAGAGCTGAGAAAGTAATGGACTCAT
CCATAATCTCTTTTATAGATTTGAAAGTGTAAACAATACACACTTCCTTTTTTGGAACTCCAATTCTAAT
ATGTTTCTTTTTCATTGGAAATTGAAAAACCAGGCTGGTTTTGAGATTAGTACTAGCAGTGAGTAAACCT
CCTGTCTGTGGACTTAAATCCTTTTGAGGAACATTTCGTTTTAGATTTTTACAAGTTTTCTAATCTGGCA
CGACTTTCAAACTAGCTTAATCTGTTCTTACAGAAACCTGTGTAAGGACAGACTGCCCACATACGGGCTC
CCCAAACAAAACGGCATTTTTATTTCTTGTCCCTGCTCGGGTTTCACCGAACCTTGGTAGCCATAATCAG
AACAAATGAAACACAGTCAAGTTGTTGTGTTCTGTTTGTTTTTACCTGCCAGCCAGCTGATGCTGACATT
TATACACCAAGATGATCCAAGGTTTTGGTGACGCCGGTGGGGACTGCCGCTATATGTGCAGGGTGCCCGG
GGGTCATAGTAATGTTAATGGAGTACCAGAATCTCTAACAGTGTGGTCCTGTGTAGCCACATTGCTACAC
TTACAGAGATGCTTTGGGGCCTTTTTGGATTAAGACAGTTCTAAAAGACCAGGCCTCACCTATGATCTGT
GTATAAAGAATTAGCATCGCACTGTAGATCTGCAAGAGAAGGCCGCCTCCTGCAGTGCTCTCTCTTGGTG
AATGCTAACTCTGCTCGAGGGCCTTTTGGGGAAAGGACAGTGCAAAACCCTTAGAGAGGTAAGTTTCCCA
CCCTTCCAACCTCTCTCCACCTGCAGCTTGCTTGGTGCTGTCAGGATCTGGATTTGGGGGGAGTCTCTCT
GTAGTGGAACCAGTGACAGAAGCTGTTCTTTAGAATTTTCAGGATGGCTGTATTCTGCGGTCAGAATGAG
AGAGTCAAGCTGGGCAGAATCTCTCGCCAAGAGTTCAGGTAAGGTAATGTTTATTCACTGGGAATGCTTT
CCACAGCCAGACAGCTATGCTAACAGTCTCAAGTTTTCTTCCAGTTTGTTTAGATTTAAATGATACATTT
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ATGGTTTGAAATGTCATTGTTATTTAAAAACCCGATGTGTTGGAACTTCTTTAATCTGCTGTTTCCTCTT
TTTCCCCCCCTTTGAAAGTTTCGCATAGTGTAAACATTCACTATGTCTTTTACCTTCCCTGCTCCTCCCA
TCTGGGAGGCGCTGATGCTATTACCCAGTGCTGAAAAATGGCACTCTAAAGGTATGGGAAGGAAGGAGCC
CAAGGCAACCACCTGCTGTCCTTTCAGCCTTCCTTTGGAGACTGCTCCATCAGTGCCGAGGTGTGTGGGA
ACAGGCTTCACTGCACCGCCATCTTACTGAGTTGCTTCACGTGAGGAAAAGGGGGCTTTGGCCCTGTGAC
TCAGTTCCACATTTTGGATTGCATACTGGAAAAGAAGCCAATCTTCTTGCTAGTAAACCAGCAACCCGGC
TGTATACAGTGGTGACCCAAGCAATGGATATAAACCTAAAAATCTGAGGGAGGGGAGAGGTGGAATACAG
TAGTTCTTGGAATCTGAAGTCTCCTATTTGATCAGGTTATTTCCTGGGACTTGGCAAAAATCTGATTGGT
GGGGATCTCCTAGGACCTAGTGGACATCTGGTATTAATTTAATCTCAGGAAAAACAAGAAATTAACCCAG
AGAGAGTCTGGGTTCTGGAATTCAGCGTAGCTACCTCCAGACCGTGGTGTCTGGCCTCCATTTTTGTCTG
TCATTCAGCTCTGACTTACAGCTGCAATCACCTTTGCTATAAGGCACCTGGGTAGAAGGGTGGATGGGCT
TCACATCAATTTTTTTCTTCCTTTAGGGTGGGGGATTGGTTTGGCTTTCTTTTGTTGTGGCTTTTTGTTT
TATTTTTGTCAAGATTGATTTTTAGATGCAAGGACTTGAAAAGACCCAGAAGGATGCCACCAGTTTTTCC
TTGAGGCCTAGGATTTTTTATTCTGTCCCGAGCAGAGGTAATTCCTCACAACTTAGTGCACCAGTAGCAC
CAGCCGTTTTGAGCAGAGTACCTCTTTGGGGAGCTTTTCGTTTTGTTTTGTTTTTAATTCTCTTTCCTTA
GCAGCAAGGTCTTTTTTCCTAGAGAATCTACTCCGTTGCAGAATCATTGCAACCTCAGGAGCCCTCACTG
ATTGAGTGCTGTCAGCCTGATATACTACTTTGGACTCTGGAAACAGATATGGGTTCTATTCTCTATTTCT
ACTGTGTGTCGTTAAACAACCGTCGGAGACCAGATGACCTGTTAGATGGCTAGTCCTGTATAACTCGACT
CTGTATGTTTCAATGTATGTTACTGCAATGCTTCACCTGCTGTACAGTGTTTGTGAGATGCTCTTTGAAG
ATGGTACTTTTATATTTTTTCATTTTCAATAAAAGTACATTCCTTCCC

5' Read Nucleotide Sequence:

>OriGene 5' read for AK090667 unedited
NGGTCAAATATTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGATGAAACA
CAGTCAAGTTGTTGTGTTCTGTTTGTTTTTACCTGCCAGCCAGCTGATGCTGACATTTAT
ACACCAAGATGATCCAAGGTTTTGGTGACGCCGGTGGGGACTGCCGCTATATGTGCAGGG
TGCCCGGGGGTCATAGTAATGTTAATGGAGTACCAGAATCTCTAACAGTGTGGTCCTGTG
TAGCCACATTGCTACACTTACAGAGATGCTTTGGGGCCTTTTTGGATTAAGACAGTTCTA
AAAGACCAGGCCTCACCTATGATCTGTGTATAAAGAATTAGCATCGCACTGTAGATCTGC
AAGAGAAGGCCGCCTCCTGCAGTGCTCTCTCTTGGTGAATGCTAACTCTGCTCGAGGGCC
TTTTGGGGAAAGGACAGTGTAAAACCCTTAGAGAGGTAAGTTTCCCACCCTTCCAACCTC
TCTCCACCTGCAGCTTGCTTGGTGCTGTCAGGATCTGGATTTGGGGGGGAGTCTCTCTGT
AGTGGAACCAGTGAAGAAAGCTGTTCTTTAGAATTTTCAGGATGGCTGTATNCTGCGGTC
AGAATGAGAGAGTCAAGCTGGGCAGAATCTCTGCCAAGAGTTCAAGTAAGGTAATGTTTA
TTCACTGNGAATGCTTTCCACAGCCAGACAGCTATGCTAACAGTCTCAAGTTTTCTTCNC
AGTTTGTTTAGATTTAAATGATACATTTGTAACTTTTTAAAATAAATTTTGNTTTGGATT
TTTCATGAAAACCTCTTTTTTCTTTATCCCTANAAAATGGTTNGAATGTCATTGNTATTT
AAAAACCGATGTGTTGGAAACTCTTAATCTGCTGTTNCCTCTTTTCCCCCTTTTGAAAGT
TCGCATATGGTAACATCACTATGNCTTTTACTTCCTGCTCTCATATNNGNAA

3' Read Nucleotide Sequence:

>OriGene 3' read for AK090667 unedited
NGGGGGAATACTGTGNNACGCGGNCCGCTTNCNANGATCGAGTTTTTTTTTTTTTTTTTT
GGGGAAGGAATGTACTTTTATTGAAAATGAAAAAAATAAAAGTACCATCTTCAAAGAGCA
TCTCACAAACACTGTACAGCAGGTGAAGCATTGCAGTAACATACATTTGAAACATACAGA
GGTCGAGTTATACAGGACTAGCCATCTAACAGGTCATCTGGTCTCCGACGGTTGTTTAAC
GACACACAGTAGAAATAGAGAATAGAACCCATATCTGTTTCCAGAGTCCAAAGTAGTATA
TCAGGCTGACAGCACTCAATCAGTGAGGGCTCCTGAGGTTGCAATGATTCTGCAACGGAG
TAGATTCTCTAGGAAAAAAGACCTTGCTGCTAAGGAAAGAGAATTAAAAACAAAACAAAA
CGAAAAGCTCCCCAAAGAGGTACTCTGCTCAAAATGGCTGGTGCTACTGGTGCACTAAGT
TGTGAGGAATTACCTCTGCTCGGGACAGAATAAAAAATCCTAGGCCTCAAGGAAAAACTG
GTGGCATCCTTCTGGGTCTTTTCAAGTCCTTGCATCTAAAAATCAATCTTGACAAAAATA
AAACAAAAAACCACAACAAAAGAAAGCCAAACCAATCCCCCACCCTAAAGGAAGAAAAAA
ATTGATGTGAAGCCCATCCACCCTTCTACCCANGTGCCTTATAGCAAAGGTGACTGCAGC
TGTTAGTCAGAGCTGAATGACAGACAAAAATGGAGGCCAGACACCACGGTCTGGAGGTAG
CTACGCCTGATTCCAGAACCCAGACTCTCTCTGGGGGTAATTTTCTGGTTTTCCCTGAGA
TTAATTAATTACAGATGTCCACTAAGTCCTAGGAGATCCCACCCATCAGATTTTTGCCCA
GTCCCG

Restriction Sites: NotI-NotI

ACCN: AK090667

Insert Size: 2500 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:	AK090667.1
RefSeq Size:	2918 bp
RefSeq ORF:	2918 bp
Locus ID:	10057
Cytogenetics:	3q27.1
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 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-mercatopurine 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]