

Product datasheet for **SC309046**

MRP6 (ABCC6) (NM_001171) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRP6 (ABCC6) (NM_001171) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRP6
Synonyms:	ABC34; ARA; EST349056; GACI2; MLP1; MOAT-E; MOATE; MRP6; PXE; PXE1; URG7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001171 edited
 ACCCACGACGACAGAAGGCGCCGATGGCCGCGCCTGCTGAGCCCTGCGCGGGCAGGGGG
 TCTGGAACGACAGAGCCTGAACCTGCCGCCACCAGCCTGCTGAGCCTGTGCTTCTGA
 GAACAGCAGGGGTCTGGGTACCCCCATGTACCTCTGGGTCTTGGTCCCATCTACCTCC
 TCTTCATCCACCACCATGGCCGGGGCTACCTCCGGATGTCCCACTCTTCAAAGCCAAGA
 TGGTGCTTGGATTGCGCCCTCATAGTCTGTGTACCTCCAGCGTGGCTGTGCTCTTTGGA
 AAATCCAACAGGGAACGCCTGAGGCCCCAGAATTCCTCATTATCCTACTGTGTGGCTCA
 CCACGATGAGCTTCGCAGTGTTCCTGATTCACACCGAGAGGAAAAAGGGAGTCCAGTCAT
 CTGGAGTGTGTTGGTTACTGGCTTCTGCTTTGTCTTGCCAGCTACCAACGCTGCC
 AGCAGGCTCCGGAGCGGGCTTCCAGAGCGACCCTGTCCGCCACCTGTCCACCTACCTAT
 GCCTGTCTCTGGTGGTGGCACAGTTTGTGCTGTCTGCCTGGCGGATCAACCCCTTCT
 TCCTGAAGACCCCAAGCAGTCTAACCCCTGTCCAGAGACTGGGGCAGCCTTCCCTCCA
 AAGCCACGTTCTGGTGGGTTTCTGGCCTGGTCTGGAGGGGATACAGGAGGCCACTGAGAC
 CAAAAGACCTCTGGTTCGCTGGGAGAGAAAACCTCAGAAAGAACTTGTTTCCCGGCTTG
 AAAAGGAGTGGATGAGGAACCGCAGTGCAGCCCGAGGCCACAACAAGGCAATAGCATTTA
 AAAGGAAAGGCGGAGTGGCATGAAGGCTCCAGAGACCGAGCCCTTCTACGGCAAGAAG
 GGAGCCAGTGGCGCCACTGTGAAGCCATCTGGCAGGTGTTCCATTCTACCTTCTCC
 TGGGGACCCTCAGCCTCATCATCAGTGTGCTTTCAGGTTCACTGTCCCCAAGCTGCTCA
 GCCTTTTCTGGAGTTTATTGGTATCCCAAGCCTCCAGCCTGGAAGGGTACCTCCTCG
 CCGTGCTGATGTTCTCTCAGCCTGCCTGCAAACGCTGTTTGGAGCAGCAGAACATGTACA
 GGCTCAAGGTGCTGCAGATGAGGTTGCGGTGCGCCATCACTGGCCTGGTGTACAGAAAGG
 TCCTGGCTCTGTCCAGCGGCTCCAGAAAGGCCAGTGCAGTGGGTGATGTGGTCAATCTGG
 TGTCCGTGGACGTGCAGCGGCTGACCGAGAGCGTCTCTACCTCAACGGGCTGTGGCTGC
 CTCTCGTCTGGATCGTGGTCTGCTTCGTCTATCTTGGCAGCTCCTGGGGCCCTCCGCC
 TCACTGCCATCGTGTCTTCTGAGCCTCCTCCCTCTGAATTTCTTCATCTCCAAGAAAA
 GGAACCACCATCAGGAGGAGCAAATGAGGCAGAAGGACTCACGGGCACGGCTCACCAGCT
 CTATCCTCAGGAACTCGAAGACCATCAAGTTCCATGGCTGGGAGGAGCCTTCTGGACA



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GAGTCCTGGGCATCCGAGGCCAGGAGCTGGGCGCCTTGCGGACCTCCGGCCTCCTTTCT
 CTGTGTCGCTGGTGTCTTCCAAGTGTCTACATTTCTGGTCGACTGGTGGTGTGTTGCTG
 TCCACACTCTGGTGGCCGAGAATGCTATGAATGCAGAGAAAGCCTTTGTGACTCTCACAG
 TTCTCAACATCTCAACAAGGCCAGGCTTTCTGCCCTTCTCCATCCACTCCCTCGTCC
 AGGCCCGGGTGTCTTTGACCGTCTGGTCACCTTCTCTGCTGGAAGAAGTTGACCCTG
 GTGCCGTAGACTCAAGTTCCTCTGGAAGCGCTGCCGGAAGGATTGCATCAGGATACAAA
 GTGCCACTTTCGCTGGTCCCAGGAAAGCCCTCCCTGCCTCCACAGAATAAACCTCACGG
 TGCCCCAGGGCTGTCTGCTGGCTGTTGTCGGTCCAGTGGGGGCAGGGAAGTCCTCCCTGC
 TGTCCGCCCTCCTTGGGAGCTGTCAAAGTGGAGGGTTCGTGAGCATCGAGGGTGTCTG
 TGGCTACGTGCCAGGAGGCCTGGGTGCAGAACACCTCTGTGGTAGAGAATGTGTGCT
 TCGGGCAGGAGCTGGACCCACCCTGGCTGGAGAGAGTACTAGAAGCCTGTGCCCTGCAGC
 CAGATGTGGACAGCTTCCCTGAGGGAATCCACACTTCAATTGGGGAGCAGGGCATGAATC
 TCTCCGGAGGCCAGAAGCAGCGGCTGAGCCTGGCCGGGCTGTATACAGAAAGGCAGCTG
 TGTACCTGCTGGATGACCCCTGGCGGCCCTGGATGCCACGTTGGCCAGCATGTCTTCA
 ACCAGGTCAATTGGCCTGGTGGGCTACTCCAGGGAACAACACGGATTCTCGTGACGCACG
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 ACCCCAGAGGCACCTCTGCAGGCAGGAGGCCGAGCTTAGACGCGAGAGGTCCATCAAGT
 CAGTCCCTGAGAAGGACCGTACCACTTCCAGAAGCCAGACAGAGGTTCTCTGGATGACC
 CTGACAGGGCAGGATGGCCAGCAGGAAAGGACAGCATCCAATACGGCAGGGTGAAGGCCA
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 TTTCTCTGCCAGCAAGTGGCCTCCTTCTGCCGGGCTACTGGCTGAGCCTGTGGGGCGG
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 TCCTCGGCTGTCTCCAAGCCATTGGGCTGTTTGCCTCCATGGCTGCGGTGCTCCTAGGTG
 GGGCCCGGCATCCAGGTTGCTCTTCCAGAGGCTCCTGTGGGATGTGGTGCATCTCCA
 TCAGCTTCTTTGAGCGGACACCCATTGGTCACTGCTAAACCGCTTCTCCAAGGAGACAG
 ACACGGTTGACGTGGACATTCCAGACAACTCCGGTCCCTGTGATGTACGCCTTTGGAC
 TCCTGGAGGTGAGCCTGGTGGTGGCAGTGGCTACCCACTGGCCACTGTGGCCATCTGC
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 GACGCTTGGAGTCAGCCAGCTACTCGTCTGTCTGCTCCACATGGCTGAGACGTTCCAGG
 GCAGCACAGTGGTCCGGCATTCCGAACCCAGGCCCTTTGTGGCTCAGAAACATGCTC
 CGGTAGATGAAAGCCAGAGGATCAGTTTCCCGGACTGGTGGCTGACAGGTGGCTTGCGG
 CCAATGTGGAGCTCCTGGGGAATGGCCTGGTGTGTTGCAGCTGCCACGTGTGCTGTGCTGA
 GCAAAGCCACCTCAGTGTGGCCTCGTGGGCTTCTGTCTCTGCTGCCCTCCAGGTGA
 CCCAGACACTGCAGTGGGTTGTTCCGAACTGGACAGACCTAGAGAACAGCATCGTGTGAG
 TGGAGCGGATGCAGGACTATGCCTGGACGCCAAGGAGGCTCCCTGGAGGCTGCCACAT
 GTGCAGCTCAGCCCCCTGGCCTCAGGGCGGCAGATCGAGTTCGGGACTTTGGGCTAA
 GATACCGACCTGAGCTCCCGTGGCTGTGCAGGGCGTGTCTTCAAGATCCACGCAGGAG
 AGAAGGTGGGCATCGTTGGCAGGACCGGGGCAGGGAAGTCTCCCTGGCCAGTGGGCTGC
 TGCGGCTCCAGGAGCAGCTGAGGGTGGGATCTGGATCGACGGGGTCCCCATTGCCACG
 TGGGGCTGCACACACTGCGCTCCAGGATCAGCATCATCCCCAGGACCCATCCTGTTCC
 CTGGCTCTCTGCGGATGAACCTCGACCTGCTGCAGGAGCACTCGGACGAGGCTATCTGGG
 CAGCCCTGGAGACGGTGCAGCTCAAAGCCTTGGTGGCCAGCTGCCCGGCCAGCTGCAGT
 ACAAGTGTGCTGACCGAGGCGAGGACCTGAGCGTGGGCCAGAAACAGCTCCTGTGTCTGG
 CACGTGCCCTTCTCCGGAAGACCAGATCCTCATCTGGACGAGGCTACTGCTGCCGTGG
 ACCCTGGCACGGAGCTGCAGATGCAGGCCATGCTCGGGAGCTGGTTTGCACAGTGCAGT
 TGCTGCTCATTGCCACCGCCTGCGCTCCGTGATGGACTGTGCCGGGTTCTGGTATGG
 ACAAGGGCAGGTGGCAGAGAGCGGCAGCCCGGCCAGCTGCTGGCCAGAAGGGCTGT
 TTTACAGACTGGCCAGGAGTCAGGCTGGTCTGA

Restriction Sites:

Please inquire

ACCN:	NM_001171
Insert Size:	4500 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	The ORF of this clone has been fully sequenced and found to contain a number of SNPs compared with NM_001171.2.
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:	<ol style="list-style-type: none"> 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_001171.2 , NP_001162.2
RefSeq Size:	4535 bp
RefSeq ORF:	4512 bp
Locus ID:	368
UniProt ID:	O95255
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). The encoded protein, a member of the MRP subfamily, is involved in multi-drug resistance. Mutations in this gene cause pseudoxanthoma elasticum.

Alternatively spliced transcript variants that encode different proteins have been described for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) encodes the longest isoform (1).