

Product datasheet for **SC337451**

MRP4 (ABCC4) (NM_001301830) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRP4 (ABCC4) (NM_001301830) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABCC4
Synonyms:	MOAT-B; MOATB; MRP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001301830, the custom clone sequence may differ by one or more nucleotides

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ATGCTGCCCGTGTACCAGGAGGTGAAGCCCAACCCGCTGCAGGACGCGAACCTCTGCTCACGCGTGTCT
TCTGGTGGCTCAATCCCTTGTAAAATGGCCATAAACGGAGATTAGAGGAAGATGATATGTATTCAGT
GCTGCCAGAAGACCGCTCACAGCACCTTGGAGAGGAGTTGCAAGGGTTCTGGGATAAAGAAGTTTTAAGA
GCTGAGAATGACGCACAGAAGCCTTCTTTAAACAAGAGCAATCATAAAGTGTACTGGAAATCTTATTAG
TTTTGGGAATTTTTACGTTAATTGAGGCACTTCGTCTTAGTAACATGGCCATGGGGAAGACAACCCAGG
CCAGATAGTCAATCTGCTGTCCAATGATGTGAACAAGTTTGATCAGGTGACAGTGTCTTACACTTCCTG
TGGGCAGGACCACTGCAGGCGATTGCAGTGACTGCCCTACTCTGGATGGAGATAGGAATATCGTGCCTTG
CTGGGATGGCAGTTCTAATCATTCTCCTGCCCTGCAAAGCTGTTTTGGGAAGTTGTTCTCATCACTGAG
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ACGCTGTATGGGGCTGTGCGGCTGACGGTTACCCTCTTCTCCCTCAGCCATTGAGAGGGTGTGACAGG
CAATCGTCAGCATCCGAAGAATCCAGACCTTTTTGCTACTTGATGAGATATCACAGCGCAACCGTCACT
GCCGTCAGATGGTAAAAAGATGGTGCATGTGCAGGATTTACTGCTTTTTGGGATAAGGCATCAGAGACC
CCAACCTACAAGGCCTTTCCTTACTGTGACACTGGCGAATTGTTAGCTGTGGTCGGCCCCGTGGGAG
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GGGAAGAAATACGAAAAGGAACGATATGAAAAGTCATAAAGGCTTGCTCTGAAAAGGATTTACAGC
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GGTAAACCTTGCAAGAGCAGTGTATCAAGATGCTGACATCTATCTCCTGGACGATCCTCTCAGTGCAGTA
GATGCGGAAGTTAGCAGACACTTGTTCGAAGTGTGATTTGTCAAATTTGCATGAGAAGATCACAATTT
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GAGGAAAGTGAACAACCTCCAGTCCAGGAACTCCACACTAAGGAATCGTACCTTCTCAGAGTCTTCGG
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CCCAGTTAAGTATCAGAGGAGAACCGTCTGAAGGAAAAGTTGGTTTTTCCAGGCCTATAAGAATTACTTC
AGAGCTGGTGTCACTGGATTGTCTTCAATTTCCCTTATTCCTAAACACTGCAGCTCAGTTGCCTATG
TGCTTCAAGATTGGTGGCTTTCATACTGGGCAACAAACAAAGTATGCTAAATGTCACTGTAAATGGAGG
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GTTCTTTTTGGCATAGCAAGATCTCTATTGGTATTCTACGTCTTGTAACTCTTCAAACTTTGCACA
ACAAAATGTTTGAGTCAATTCTGAAAGCTCCGGTATTATCTTTGATAGAAATCCAATAGGAAGAATTTT
AAATCGTTTCTCAAAGACATTGGACACTTGGATGATTTGCTGCCGCTGACGTTTTTAGATTTTATCCAG
AGATGGGATCTCGCTGTGTTGTCTGGTGGTCTCAAACCTCCTAG
    
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Restriction Sites: SgfI-RsrII

ACCN: NM_001301830

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_001301830.1](#), [NP_001288759.1](#)

RefSeq Size: 2865 bp

RefSeq ORF: 2355 bp

Locus ID: 10257

UniProt ID: [O15439](#)

Cytogenetics: 13q32.1

Protein Families: Druggable Genome, Ion Channels: Other, 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 family member plays a role in cellular detoxification as a pump for its substrate, organic anions. It may also function in prostaglandin-mediated cAMP signaling in ciliogenesis. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Sep 2014]

Transcript Variant: This variant (4) lacks an alternate in-frame exon in the 5' coding region, and also lacks several 3' exons but contains an alternate 3' terminal exon, and it thus differs in the 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (4) has a distinct and shorter C-terminus, compared to isoform 1.