

Product datasheet for SC121947

MRP4 (ABCC4) (NM_005845) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRP4 (ABCC4) (NM_005845) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRP4
Synonyms:	MOAT-B; MOATB; MRP4
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC121947 sequence for NM_005845 edited (data generated by NextGen Sequencing)

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ATGCTGCCCGTGTACCAGGAGGTGAAGCCCAACCCGCTGCAGGACGCGAACCTCTGCTCA
CGCGTGTCTCTCTGGTGGCTCAATCCCTTGTAAAATTGGCCATAAACGGAGATTAGAG
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 GGTACACTGACCACATGGTTACAAACTTCCAATGGACAGCCCTCGACCTTAACCTATT
 TTCGAGACAGCACTGTGA

Clone variation with respect to NM_005845.3
 669 t=>c;951 a=>g;969 a=>g

Restriction Sites: Please inquire
ACCN: NM_005845
Insert Size: 5800 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).
OTI Annotation:	A TrueClone. This clone may be unstable or toxic at high copy number in common E. coli strain. We recommend using a lower copy number E. coli strain, such as CopyCutter strain (http://www.epibio.com/item.asp?ID=435) for transformation and plasmid preparation. Please be aware that the DNA yield could be low. Additional aliquots of this clone can be ordered from OriGene.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_005845.2 , NP_005836.1
RefSeq Size:	5871 bp
RefSeq ORF:	3978 bp
Locus ID:	10257
UniProt ID:	O15439
Cytogenetics:	13q32.1
Domains:	ABC_membrane, ABC_tran, AAA
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 (1) represents the longest transcript and encodes the longest isoform (1).