

Product datasheet for **SC305638**

ABCC10 (NM_033450) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABCC10 (NM_033450) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABCC10
Synonyms:	EST182763; MRP7; SIMRP7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC305638 representing NM_033450. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTGCCTCCTTGTCTTCCCCCTGTCCCCAGGAGTCCAGATTACATCCTACCCTGCAGTCTGGATGG
CGCCTCCGACTTGCAGCTTCTTCTGCTTCCGTCTTCCGCTGCTAGACCTTCTTCCAGTTGCTTTG
CCACCAGGGGCAGGCCAGGACCCATAGGGCTAGAGGTGTTGGCAGGGTGCCTGGCAGCTGTGGCCTGG
ATCAGCCACAGCCTGGCCCTGTGGGTGTTGGCACATCCCCTCATGGCCACTCCCGGGTCCCTTGGCC
TTGGCCCTGGTAGCCTTGTGCCAGCTCCAGCCCTAGTGTGACCGTGTGTGGCATTGCCAGCGAGGC
ACACTTCTGCCCCACTTCTCCAGGGCCATGGCCCGCCTATGCTTGTCTCATCTGCAGCTGGCTGCA
CTTTGGCCTATGCACTGGGATGGGAGCTCCTGGGGACCACGAGAACCCTGGGCTCAGGAGCCCCCTC
CTGCCCGAGGATCAAGAACCTGAGGTGGCTGAAGATGGGGAGAGTTGGCTGTACGCTTTTCTATGCC
TGGCTGGCACCCCTTGTGGCCCTGGGGCTGTGGAGAGCTCCGGCAGCCTCAGGACATTTGCCGCCTC
CCCCACAGACTGCAGCAACCTACCTGGCTCGTGTCTTCCAGGCACACTGGCAGGAGGGGGCACGGCTG
TGGAGGGCCTTGTATGGGGCCTTGGACGGTGTATCTGGCACTTGGACTGCTGAAGCTGGTGGGGACC
ATGTTGGGATTCTCAGGGCCCTGTTGCTCTCCCTACTGGTGGGCTTCTGGAAGAGGGGGCAGGAGCCA
CTAAGCCACGGCTGCTCTATGCTCTGGGGCTAGCCGGTGGGGCTGTGCTGGTGTCTGTGCTGCAGAT
AAGGCTTTACAGCTGGGGCCAGCCGCCCTCCTACTGGGGAGGCCCTGAACCTACTAGGCACTGACTCT
GAACGGCTGCTTAACTTTGCTGGGAGCTTCCATGAAGCCTGGGGCCTGCCCTGCAACTGGCCATCACC
CTCTACCTGCTGTACCAGCAGGTAGGCGTGGCCTTCTGGGTGGTCTCATCTTGGCACTGCTGCTGGTA
CCCGTCAACAAAGTGATTGCCACCCGCATCATGGCCAGCAACCAGGAAATGCTACAGCACAAGGATGCG
CGGGTTAAGCTTGTGACAGAGCTGCTGAGTGGCATTGGGTGTCATCAAGTTCTGCGGGTGGGAGCAGGCA
CTGGGAGCCCAGTAGAGGCTGCCGGCTCGAGAGCTGGGGGACTCCGGGTATCAAATACCTGGAT
GCGGCCTGTGTATACCTGTGGGCTGCCCTACCGGTTGTCATCTCCATCGTTATCTTATCACCTATGTC
CTCATGGGGCACCAGCTACTGCCACCAAGGTGTTACGGCCCTGGCACTGGTGGCAATGCTCATTCT
```



[View online >](#)

CCTCTCAACAACCTCCCTTGGGTGATCAATGGTCTCCTGGAGGCCAAAGTGCCTTGGACCGGATCCAG
 CTTTTCTCGACCTTCCAAACCACAACCCCCAGGCCTACTACAGCCCAGATTGTGGTAGATTAGGAGCC
 CAAATCAAGTGGCTTCTCTGTTCAGATCCCCCTGCAGAGCCATCTACAGTATTGGAGCTGCATGGAGCC
 TTGTTCTCCTGGGACCCAGTTGGAACCAGCCTGGAGACCTTCATCAGTCTCCTCGAAGTGAAAAAGGT
 ATGCTGGTGGGCATCGTGGGAAGGTGGCTGTGGGAAGAGCTCCCTGCTGGCTGCCATCGCTGGAGAG
 CTCCACAGGCTGCGTGGGCATGTGGCAGTGGGGGGCTGTCCAAGGGCTTTGGCCTGGCCACCCAGGAA
 CCCTGGATCCAGTTGCCACCATCCGAGACAACATCCTCTTTGGGAAGACATTTGATGCACAGCTGTAC
 AAGGAGGTGCTAGAAGCCTGCGCCCTCAATGATGACCTCAGTATCCTGCCTGCTGGAGACCAGACAGAG
 GTGGGGGAGAAGGTGTACCCTTAGCGGAGGACAGCGTGCCCGATTGCCCTTGTCTGTCTGTCTAC
 CAGGAAAAGGAGCTCTATCTCCTCGATGACCCTCTGGCCGCTGTGGATGCAGATGTGCCAACCCCTG
 CTGCACAGGTGCATCCTGGGCATGCTGAGCTACCCACACGGCTGCTCTGCACCCACCGCACTGAGTAC
 CTGGAGAGGGCTGACGCGGTGCTGCTGATGGAGGCCGGCGCCTCATCCGGGCTGGACCTCCCTCTGAG
 ATTCTGCCACTGGTACAAGCTGTCCCAAAGCCTGGGCTGAGAATGGACAAGAGTCTGACTCAGCCACA
 GCCAGTCACTACAGAACCCAGAGAAAACAAGGAGGGGCTGGAGGAGGAGCAGAGCACATCTGGTCGC
 CTGCTGCAGGAAGAAAGCAAGAAGGAGGGCGCCGTGGCCTTGACGTGTACCAAGCTTACTGGAAGGCC
 GTGGGCCAGGGCTTGGCCTTAGCCATCCTCTTCTCTGTCTCATGCAAGCCACGCGGAACGCTGCT
 GACTGGTGGCTCTCCACTGGATCTCTCAGCTGAAGGCTGAGAATAGCTCCCAGGAGGCGCAACCCCTCC
 ACCAGCCCAGCTTCTATGGGGCTTCTCTCCGAGCTGCTCCTTTTTCCCTGGAAAACCTCTACATC
 CCAGTGTCCCACTGCCAAAGCTGCCCAATGGCTCCTCAGACATCCGTTTCTACCTCACCGTGTAT
 GCGACCATTGCTGGTGTAAATCCCTCTGCACCCTTCTCCGGGCAGTGTCTTTGACGACGGCACCCCT
 CAAGCAGCTGCCACTCTGCATCGCCGCTGCTGCATCGAGTCTTATGGCACCAGTACTTTCTTCAAT
 GCCACACCCACGGGCCGATCCTAAACCGCTTCTCCTGTATGTGGCCTGTGCGGATGACAGCCTGCC
 TTCATCCTCAACATCCTCCTGGCCAACGGCCAGCCTGCTGGGGCTCCTGGCCGTGGTGGCTGTGGC
 CTGCCCTGGCTGCTCCTGCTGCCGCTTTGAGCATCATGTACTATCAGTGCAGCGCACTACAGG
 GCCTCCTCACGGGAGCTGCGGCGCTGGGCAGCCTCACCTGTCTCCACTGTATAGCCATCTGGCGAT
 ACCTTGGCTGGCCTCTCTGTGCTCCGGGCCACAGGGGCCACCTACAGTTTGGAGGAGAGAACCTGCGA
 CTCCTTGGAGTAAACCAGAGGTGCCAGTTTGCACCAAGTGCACAATGCAGTGGCTGGACATTGCGTA
 CAGCTCATGGGGCGGCAGTGGTCAAGCCTATCGCAGGCATCGCTCTGGTGCAGCACCAGCAGGGCCTC
 GCTAACCCAGGGCTGGTGGGCTTGTGCTGTCTTATGCCCTGTCCCTGACGGGCTGCTCTCGGGCCTG
 GTGAGCAGCTTACACAGACAGAGGCCATGCTGGTGGAGCTGAGCGGCTGGAAGAGTACACCTGTGAC
 CTGCCCCAGGAACCCAGGGCCAGCCATGCAGCTGGGCACCGGCTGGCTGACCCAGGGGGCGTGGAG
 TTCCAGGACGTGGTGTGGCGTACCGGCCAGGGCTGCCGAATGCCCTGGATGGAGTGACCTTCTGGGTG
 CAGCCTGGAGAGAAGTTGGGCATCGTGGGCCGCACAGGCTCCGGCAAGTCTTCCCTGTTGTTGGTGTCT
 TTCCGGCTGCTAGAGCCAGTTCAGGGCGAGTGTGCTGGACGGCGTGGACACCAGCCAGCTGGAGCTG
 GCCAGCTCAGATCCCAGTTGGCTATCATCCCCAGGAGCCCTTTTTGTTGAGTGGGACTGTTCCGGAA
 AACCTGGACCCCCAGGGCCTACATAAGGACAGGGCCTTGTGGCAGGCCCTGAAGCAGTGCACCTGAGT
 GAGGTGATTACATCCATGGTGGTCTGGATGGTGGAGCTGGGTGAGGGGGCCGGAGCTTATCTTTGGG
 CAGAGGCAGCTGTTGTGTTTGGCCAGGGCTCTCCTCACAGATGCCAAGATCCTGTGTATCGATGAGGCC
 ACAGCAAGTGTGGACCAGAAGACAGACCAGCTGCTCCAGCAGACCATCTGCAAACGCTTTGCCAACAG
 ACAGTGTGACCATGCCCATAGGCTCAACACGATCCTGAACTCAGACCGGGTGTGGTGTACAAGCG
 GGGAGAGTGGTAGAGCTGGACTCCCGGCCACCCTGCGCAACCAGCCCCACTCCCTGTTCCAGCAGCTG
 CTGCAGAGCAGCCAGCAGGGAGTCCCTGCCTCACTCGGAGGTCCCTGA
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI
ACCN: NM_033450
Insert Size: 4395 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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_033450.2
RefSeq Size:	5118 bp
RefSeq ORF:	4395 bp
Locus ID:	89845
UniProt ID:	Q5T3U5
Cytogenetics:	6p21.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ABC transporters
MW:	158.8 kDa
Gene Summary:	<p>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, and White). This ABC full-transporter is a member of the MRP subfamily which is involved in multi-drug resistance. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Nov 2010]</p> <p>Transcript Variant: This variant (MRP7A), also known as SIMRP7, has multiple differences, compared to variant MRP7. These differences result in a distinct 5' UTR and cause translation initiation at a downstream start codon, compared to variant MRP7. The encoded protein (isoform MRP7A) is shorter than isoform MRP7.</p>