

Product datasheet for **SC306747**

ABCA5 (NM_172232) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: ABCA5 (NM_172232) Human Untagged Clone
Tag: Tag Free
Symbol: ABCA5
Synonyms: ABC13; EST90625; HTC3
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_172232 edited
 GCCCACCATGTCCTCACTGCAATTAGGGAGGTAGGAGTTTGGAGACAGACCAGAACACTTCT
 ACTGAAGAATTACTTAATTAATGACAGAACCAAAAAGAGTAGTGTTCAGGAAATCTTTT
 TCCACTATTTTTTTTATTTTGGTTAATATTAATTAGCATGATGCATCCAATAAGAAATA
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AGGAAAGAGTACATTGATGAATATCTTTGTGGACTCTGCCACCTTCTGATGGGTTTGC
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 TGGCATTGTGCCACAGTTAGATATACACTTTGATGTTTGGACAGTAGAAGAAAAATTTATC
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CCGTCAGGAAAGTTTTTCTTCTATTTTGGCTTATAAAATTCCTAAGGAAGATGTTTCAGTC
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GGAAGATAATAGTTGTGGAACTTTAAACAGCACACTTTGGTGGGAACGAACACAAGAAGA
TAGAGTAGTATTTTGA
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Restriction Sites:	Please inquire
ACCN:	NM_172232
Insert Size:	5000 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:	<u>NM_172232.1</u> , <u>NP_758424.1</u>
RefSeq Size:	5939 bp
RefSeq ORF:	4929 bp
Locus ID:	23461
UniProt ID:	<u>Q8WWZ7</u>
Cytogenetics:	17q24.3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ABC transporters

Gene Summary:

The membrane-associated 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 intracellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, and White). This encoded protein is a member of the ABC1 subfamily. Members of the ABC1 subfamily comprise the only major ABC subfamily found exclusively in multicellular eukaryotes. This gene is clustered among 4 other ABC1 family members on 17q24, but neither the substrate nor the function of this gene is known. Alternative splicing of this gene results in several transcript variants; however, not all variants have been fully described. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) represents the shorter transcript variant. It contains a distinct 5' UTR compared to transcript variant 1, but encodes the same protein. **Sequence Note:** The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The extent of this RefSeq transcript is supported by transcript alignments.