

Product datasheet for **SC305012**

ABCG4 (NM_022169) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: ABCG4 (NM_022169) Human Untagged Clone
Tag: Tag Free
Symbol: ABCG4
Synonyms: WHITE2
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_022169 edited
 TGGTAGGAGAGCGCAGTCGCCCCGCGGGCTCGGAGGACACAGCGTCCGGGACCAGGCTCT
 GGAAGCGGGTGTGCACAGCCCAGCAGAGTCAGGGCGCGACCCCAACCGCCTCTACCAT
 CCTTGCCATCTCCTCCGAGCCGAGGGCCGCGCCCTCCTGCCTCGCCTGCCCGCCCGGCC
 CCGCCCCGGCCCGGGCCCGGGACCGGGAGCCGGGACGCGGGTCCCGCAGCCCCGAGCA
 GGTAAAGGGAGCCCCGGCTCTCCGTCCCGGTCCGTGGCAGCGCTGAGCATCCCGCCCC
 GCACCGGCCCGGGGCGCGTCAAGGTCCGCGCGCTGATGGCGGAGAAGGCGCTGGAGGCC
 GTGGGCTGTGACTAGGGCCGGGGCTGTGGCCATGGCCGTGACGCTGGAGGACGGGGCG
 GAACCCCTGTGCTGACCACGCACCTGAAGAAGGTGGAGAACCACATCACTGAAGCCAG
 CGTTCTCCACCTACCAAGCGCTCAGCCGTGGACATCGAGTTCGTGGAGCTGCCTAT
 TCCGTGCGGGAGGGCCCTGCTGGCGCAAAGGGTTATAAGACCCTTCTCAAGTGCCTC
 TCAGGTAATTCTGCCGCGGGAGCTGATTGGCATCATGGGCCCTCAGGGGCTGGCAAG
 TCTACATTCATGAACATCTTGGCAGGATACAGGGAGTCTGGAATGAAGGGGCAGATCCTG
 GTTAATGGAAGGCCACGGGAGCTGAGGACCTTCCGCAAGATGTCCTGCTACATCATGCAA
 GATGACATGCTGCTGCCGCACCTCACGGTGTGGAAAGCCATGATGGTCTCTGCTAACCTG
 AAGCTGAGTGAGAAGCAGGAGGTGAAGAAGGAGCTGGTGACAGAGATCCTGACGGCACTG
 GGCCTGATGTCGTGCTCCACACGAGGACAGCCCTGCTCTCTGGCGGGCAGAGGAAGCGT
 CTGGCCATCGCCCTGGAGCTGGTCAACAACCCGCTGTGATGTTCTTTGATGAGCCACC
 AGTGGTCTGGATAGCGCCTCTTGTTCCTCAAGTGGTGTCCCTCATGAAGTCCCTGGCAG
 GGGGGCCGTACCATCATCTGCACCATCCACCAGCCAGTCCCAAGCTCTTTGAGATGTTT
 GACAAGCTCTACATCCTGAGCCAGGGTCAAGTGCATCTTCAAAGGCGTGGTCAACCACTG
 ATCCCCTATCTAAAGGACTCGGCTTGCAATGCCCCACCTACCACAACCCGGCTGACTTC
 ATCATCGAGGTGGCCTCTGGCGAGTATGGAGACCTGAACCCATGTTGTTGAGGGCTGTG
 CAGAATGGGCTGTGCGCTATGGCTGAGAAGAAGAGCAGCCCTGAGAAGAACGAGGTCCCT
 GCCCATGCCCTCCTTGCTCCTCCGGAAGTGGATCCCATGAAAGCCACACCTTTGCCACC
 AGCACCCTCACACAGTTCTGCATCCTCTTCAAGAGGACCTTCTGTCCATCCTCAGGGAC
 ACGGTCTGACCCACCTACGGTTCATGTCCACGTGGTATTGGCGTGCTCATCGGCCTC



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CTCTACCTGCATATTGGCGACGATGCCAGCAAGGTCTTCAACAACACCGGCTGCCTCTTC
 TTCTCCATGCTGTTCTCATGTTTCGCCGCCCTCATGCCAACTGTGCTCACCTTCCCCTTA
 GAGATGGCGGTCTTATGAGGGAGCACCTCAACTACTGGTACAGCCTCAAAGCGTATTAC
 CTGGCCAAAGACCATGGCTGACGTGCCCTTTCAGGTGGTGTGTCCGGTGGTCTACTGCAGC
 ATTGTGTACTGGATGACGGGCCAGCCCGCTGAGACCAGCCGCTTCTGCTTCTCAGCC
 CTGGCCACCGCCACCGCCTTGGTGGCCCAATCTTGGGGCTGTGATCGGAGCTGCTTCC
 AACTCCCTACAGGTGGCCACTTTTGTGGGCCAGTTACCGCCATCCCTGTCTCTTGTTC
 TCCGGTCTTTTGTGAGCTTCAAGACCATCCCCACTTACCTGCAATGGAGCTCCTATCTC
 TCCTATGTCAGGTATGGCTTTGAGGGTGTGATCCTGACGATCTATGGCATGGAGCGAGGA
 GACCTGACATGTTTAGAGGAACGCTGCCCGTTCGGGAGCCACAGAGCATCCTCCGAGCG
 CTGGATGTGGAGGATGCCAAGCTCTACATGGACTTCTGGTCTTGGGCATCTTCTCCTA
 GCCCTGCGGTGCTGGCTACCTTGTGCTGCGTTACCGGGTCAAGTCAGAGAGATAGAGG
 CTTGCCAGCCTGTACCCAGCCCTGCAGCAGGAAGCCCCAGTCCCAGCCCTTGGG
 ACTGTTTTAACCTTATAGACTTGGGCACTGGTTCTGGCGGGCTATCCTCTCCTCCCTT
 GGCTCCTCCACAGCTGGCTGTGGACTGCGCTCCAGCCTGGGCTCTGGGAGTGGGGG
 TCAGCCCTCCCCACTATGCCAGGAGTCTTCCAAGTTGATGCGGTTTGTAGCTTCTC
 CTA CTCTCTCCAACACCTGCATGCAAAGACTACTGGGAGGCTGTGCCTCCTTCCCTGCC
 CATGGCACCTCCTCTGCTGTCTGCCTGGGAGCCCTAGGCTCTTAGGGCCCCACTTACA
 ACTGACCAAAGTGGCCCCCTCTGGGGTCCCCACCACACAAGTGTGTAAACTGGGCTG
 CTATAAGGTTGGAGTCCAGGGCTGGGCCCTGGTGGAGTCCACTGGAAGTCCCATTATGG
 ATGTTGAAATGGACAGGAAGGACTCTGGAAGTCTTCTCCTCCTCCTCTTCTCTCCA
 CCCCTAGACCCTGGCTGACTTGGACAATCTGCCAGGACAGAAGCTGGGTTTTCTGTCTAG
 GTCACTCCCAATCCTGGGGATTGGAGAGCCTGGGGCTGTGGGATGCCCCATCCCC
 TCCCCATCACCTTGGTGGGGCAGGGCCTGGTGGCACCTGTGCAATAATGTCTGTGTTT
 CTCTCCACCTGCCACTGGAAGTGGAGAATGCACTTTATTCTGGGCGGGGGTGTAGTGGG
 GGAAGACCCAACCCTCCTTCTCGCTGCCCTAACGCATGCACGGTCTCGTGATGCTCCC
 TCCCTCTCCGGAGTGACAGGCACATACATGAGAACAGGCCATCTCAGCCCTACACACTTG
 CCATCCCCTACAGCACAGAGGAAGAGTGATGGTGGCATGCTGGTGGTGGCGGGTGTGGT
 GGGAGGACAGTGCCAACCTCCTCCTGGGATCCCATGTTGGAGACTCTAAGGATAAGGCT
 GGTGCTGCCAGGGTGTCTACAGGAAGTGCAGGTGTCTACCCCCAAGTCTTCCCTCCTCC
 CAAGCCAGGGGTGGCACAGGGCACTAGATCCCTGGAGTTCAGGAACCAACAAGCACAA
 CCACGGGCATAAGTTGGCCTTGGCCACTGCCACCCACGGCCCTCCTTTTGTGCTCCATGC
 TGGCATCTTCACTCCCCTACCCCTTCCCCAGCCACTGCTGCTCATTCAAACCTTCTGTCCA
 TGTCCCTCCACTGTTCTATCAGCAGGTGGCCCTGGGCATCAGAACAGCCTGCCCTGGG
 CACCAGGTGGCAGACACTCAGAGCATGTCTGGCTTTCCTGGTGGGTCCAGGCTCATTCT
 TGCTTCTGATTTCCCCTCCCCAGGGCTCATTTTCCCCCTTTTCTGTACACATCCCTG
 TCTACCTCCTCTACCCCTGCCACAGATTCTTCTATCACACAGGGATGCCAGTTGATTT
 GTGGGATTTACCCATTATTAATAAAACCTATATTTATACAGTATGCAATGTGTA
 AAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_022169 unedited NNGGGTCAGATTTTGTATACGACTCATATAGGCGGCCGCGNATCCCGGGATTGGTAGGA GAGCGCAGTCGCCCCGCGGGCTCGNGAGACACAGCGTCCGGGACCAGGCTCTGGGAAGCG GGTGTGCACAGCCAGCAGAGTCAGGGCGCGACCCCAACCGCCTCTACCATCCTTGCCA TCTCTCCGAGCCGAGGGCCGGCCCTCTGCCTCGCTGCCCGCCCCGGCCCCGCCCG GCCCGGGCCGCCGGGACCGGGAGCCGGGACGCGGGTGCCGCAGCCCGAGGCAGGTAAGGG GAGCCCCGGCTCTCCGTCCCCGGTCCGTGGCAGCGCTGAGCATCCCGGCCCGCACCCGGC CCGGGGCGCGTCAAGGTGCGCGCGTGTGGCGGAGAAGGCGCTGGAGGCCGTGGGCTG TGGACTAGGGCCGGGGCTGTGGCCATGGCCGTGACGCTGGAGGACGGGGCGGAACCCCC TGTGCTGACCACGCACCTGAAGAAGGTGGAGAACCACATCACTGAAGCCCAGCGTTCTC CCACCTACCCAAGCGCTCAGCCGTGGACATCGAGTTCGTGGAGCTGTCCTATTCCGTGCG GGAGGGCCCTGTGGCGAAAAGGGTTATAAGACCCTTCTCAAGTGCCTCTCAGGTAA ATTCTGCCCGGGAGCTGATTGGCATCATGGGCCCTCAGGGGTGGCAAGTCTACATT CATGAACATCTTGNACAGGATACAGGGAGTCTGGGAATGAAGGGCAGATCCTGGTTAATGG AAAGCCACGGGAGCTGNAGACCTCCGCGAGATGTCCTGCTACATCATGCAAGATGACATG CTGCTGCCGCACCTCACGGTGTGGAGCCATGATGGTCTCTGCTAN</p>
Restriction Sites:	Please inquire
ACCN:	NM_022169
Insert Size:	3900 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 open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_022169.3 , NP_071452.2
RefSeq Size:	3874 bp
RefSeq ORF:	1941 bp
Locus ID:	64137
UniProt ID:	Q9H172
Cytogenetics:	11q23.3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ABC transporters
Gene Summary:	<p>The protein encoded by this gene is a member of the ATP-binding cassette (ABC) transporter superfamily. 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 is a member of the White subfamily and plays an important role in cellular cholesterol homeostasis. This protein functions as either a homodimer or as a heterodimer with another ABC subfamily protein such as ABCG1. [provided by RefSeq, Jan 2017]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Variants 1, 2, and 3 all encode the same isoform (a).</p>