

Product datasheet for **SC104214**

ABCA1 (BC034824) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABCA1 (BC034824) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABCA1
Synonyms:	ABC-1; ABC1; CERP; HDLDT1; TGD
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for BC034824, the custom clone sequence may differ by one or more nucleotides

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GTGAGTGGGGCCGGGACCCGAGAGCCGAGCCGACCCCTTCTCTCCGGGCTGCGGCAGGGCAGGGCGGGG
AGCTCCGCGCACCAACAGAGCCGGTTCTCAGGGCGCTTTGCTCCTTGTTTTTCCCGGTTCTGTTTTCT
CCCCTTCTCCGGAAGCTTGTCAAGGGGTAGGAGAAAGAGACGAAACACAAAAGTGAAAAACAGTGTCA
GCTGCTGCTGGAAGTGGCCTGGCCTCTATTTATCTTCTGATCCTGATCTCTGTTTCGGCTGAGCTACCCA
CCCTATGAACAACATGAATGCCATTTTCCAATAAAGCCATGCCCTCTGCAGGAACACTTCTTGGGTTT
AGGGGATTATCTGTAATGCCAACACCCCTGTTTCCGTTACCCGACTCCTGGGGAGGCTCCCGGAGTTGT
TGGAAACTTTAACAAATCCATTGTGGCTCGCCTGTTCTCAGATGCTCGGAGGCTTCTTTTATACAGCCAG
AAAGACACCAGCATGAAGGACATGCGCAAAGTTCTGAGAACATTACAGCAGATCAAGAAATCCAGCTCAA
ACTTGAAGCTTCAAGATTTCTGGTGGACAATGAAACCTTCTCTGGGTTCTGTATCACAACTCTCTCT
CCCAAAGTCTACTGTGGACAAGATGCTGAGGGCTGATGTCATTCTCCACAAGGTAAGCTGATGCCTCCAG
CTTCTCAGTAGGGCTGATGGCAATTACGTTGTGCAGCTACTGAAAGAAATGAATAAACCTTGTCTT
GTAATGGTGGTGAAGGGGAGGGAGGTAGTTTGAATACAACCTCACTTAATTTTACTTCCCTATTCAGGCA
GGAATTGCCAAACCATCCAGGAGTGGAATATGCAACCTGGCGTCATGGCCAGCTGGTAAAAATAAAAT
GATTTCTGGCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA
  
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for BC034824 unedited</p> <pre> NNNNGGGTTCAGCAATATGTATCCGACTTACTATNAGGNNCGGCCGNNAAATTCGGCAC CCAGTCAGAAGTGTCTTCAATGGGTGCTGNAGGGNNAAGCCAGCAACAGNAAACAGNNAT GATTTTCAGGGAGCCCTCCAGGAAAATGTACAGGAGGAGTGTGCCTGGGTACTGGAGTA GCACAGGAGGAGGGCTTCTAGCTCAGGCTGAGATTTTAGTAAAGGAAATTATGCCACGAT GAATCCTGAAGAATGAATAGAAGTGAACCAGATAAAGCACGATAGGAAGCATCTTCCCTT ACCTAAGGGAAGACACAGAGGTATATGGAATGGTATGTTAAAAGTTGGGACTCCAAACA GTTCTGTTAAAGCTTAGAGAGTGGTGGGAGAGACTGGAGAAGTTGATTAATTAGTAAATG AAGTTGTCTGTGGATTTCCAGATCCCAGTGGCATTGGATATCCATATTATTTTTAAATT TACAGTGTCTATCTTATTTCCCACTCAGTGTGCTGCTGCTGGAAGTGGCCTGGCCTC TATTTATCTTCTGATCCTGATCTCTGTTCGGCTGAGCTACCCACCCTATGAACAACATG AATGCCATTTTCAAATAAAGCCATGCCCTCTGCAGGAACACTTCTTGGGTTCCAGGGGA TTATCTGTAATGCCAACAAACCCCTGTTTCCGTTACCCGACTCCTGNGGAGGCTCCCGGAG TTGTTGAAAACCTTAACAAATCCATTGTGGCTCGCCTGTTCTCAGATGCTNCGAGGCTTC TTTTATACAGCCAGAAAGACACCNAGCATGAAGACATGCGCAAAGTTCTGAGAACATTAC AGCAGATCAAGAAATCCAGCTCANACTGAAGCTTNCAGATTCTGGTGGACAATGAACC TCTCTGGNTCCTATT </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for BC034824 unedited</p> <pre> GGGGGTAAACTGAGTACCGTGGCCCTCACTCTGANGATCGGTTTTTTTTCTTTTTAAAAT GGAAGAACCTGTTTTCAAAGAGCTCTTGCTTAGTATTATAATAGTAAAAACTGAAAAAGC AGTCTTCTCTGATTGAAACAAGCACAAAAAACTTTGGCTTAAACTCAGCCACACCCAGC TTATTCTTCCCATTACCCCTTTGGGAGATGGCCAAAATCTGAAAGAACACTAAGAACAC TTAGAATACCACTGAACATAATTATATCACAAACTCCCAGCCAGCCGACTTTTTCTACAA AACAAAGTCATGTGTCCAAGGAAAAGCCTCACATTCCGAAAGCATTAGTCTTGAAGTT TCTCCAGTGAGCAAGTCTACTCACCAGGATTGGCTTCCAGGATGTCCATGTTGGAACGAAG TACTCGCTCTGCTGCAGCCAGTTTCTCCTTTGGTAGGCCACAAAGCTCAGAAACTCTTG GTCACCAAGTTGAATCATCTCTTCTGATTTTGATCCATTGCACAGACTTGTCAAATGTAA CTGGTAGCCTTGCAAAAATACCTTGTGGAGAATGACATCAGCCCTCAGCATCTTGTCCAC AGTAGACTTTGGGAGAGAGAGGTTGTGATATAGGAACCCAGAGAAGGTTTCATTGTCCAC CAGGAAATCTTGAAGCTTCAAGTTTGAAGTGGATTTCTTGATCTGCTGTAATGTTCTCAG AACTTTGCGCATGTCCTTCATGCTGGTGTCTTTCTGGCTGTATAAAAGAAGCCTCCGAGC ATCTGAGAACAGGCGAGCCACAATGGATTGTTAAAATTTCCAACAACCTCCGGGAGCCTC CCCAGGAGTA </pre>
Restriction Sites:	NotI-NotI
ACCN:	BC034824
Insert Size:	1500 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).
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: [BC034824.1](#)

RefSeq Size: 1004 bp

RefSeq ORF: 1004 bp

Locus ID: 19

Cytogenetics: 9q31.1

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, White). This protein is a member of the ABC1 subfamily. Members of the ABC1 subfamily comprise the only major ABC subfamily found exclusively in multicellular eukaryotes. With cholesterol as its substrate, this protein functions as a cholesterol efflux pump in the cellular lipid removal pathway. Mutations in both alleles of this gene cause Tangier disease and familial high-density lipoprotein (HDL) deficiency. [provided by RefSeq, Sep 2019]