

Product datasheet for **SC127939**

ABCA1 (NM_005502) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABCA1 (NM_005502) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABCA1
Synonyms:	ABC-1; ABC1; CERP; HDLCQTL13; HDLDT1; HPALP1; TGD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_005502 edited
GAGCGAGAGTGAGTGGGGCCGGGACCCGACAGAGCCGAGCCGACCCTTCTCTCCCGGGCTG
CGGCAGGGCAGGGCGGGGAGCTCCGCGCACCAACAGAGCCGTTCTCAGGGCGCTTTGCT
CCTTGTTTTTCCCGGTTCTGTTTTCTCCCTTCTCCGGAAGGCTTGCAAGGGGTAGG
AGAAAGAGACGCAAAACAAAAAGTGAAAAACAGTTAATGACCAGCCACGGCGTCCCTGCT
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 ACGCTAAAGGTGAAGACTTCAGATTTCAAATTAATCTTCTATATTTTTTAAATTTACA
 GAATATTATATAACCCACTGCTGAAAAAAAAAAAAA

**5' Read Nucleotide
 Sequence:**

>OriGene 5' read for NM_005502 unedited
 NNGGTGCAGTTCGGATTTTGTATCCGACTCATATAGGCGGCCGAATCTANAGCGAGAGT
 GAGTGGGGCCGGGACCCGCATAGCCGAGCCGACCCTTCTCTCCGGGCTGCGGCAGGGCA
 GGGCGGGGAGCTCCGCGCACCAACAGAGCCGGTCTCAGGGCGCTTTGCTCCTTGTTTTT
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 GAAGCTTCAAGATTTCTGGTGGACAATGAAACCTTCTCTGGGTTCTGTATCACAACCT
 CTCTCTCCAAGTCTACTGTGGACAGAG

3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005502 unedited NANGAGCCTGGGGNGGGGTACAGGGATGCCACCCGGGATCTGTTCAGGAAACAGCTATG ACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTCAGCAGTGGGTTATATA ATATTCTGTAAATTTAAAAAATAGAAAAGATTAATTTGAAATCTGAAGTCTTACACCTT TAGCGTTAATATTCAAATTTTGGAAAAAGTGAAGAAGTTAGTAATGATATTGAAAGATC ACTTGAAGTCCCAACAATAGTTCTCTCATATTTTTCTTTCTCTCAAGACAGTTAAC AGTAAGTATTAGTGAACAGTATTTTTACAAATGTTTACTGACTAGAAAAATAAGACTGG GTTAGAAAACCTGAAAAATGCTCCATATGGAAGTATTTGTTGTTTTATATTTTTCTTG ACTAGTGATTGAAGAGATGAAAAATTTGAGACTGTCAGATTTAATGGGGTATCCAATATC TGCAAAGCCAATTATTTGAAGGTAATAATGCCATAAACACAAGTTGTGTTTTTCAGCAA GTTTTCAAGCTAGCTGTTTTCCCTGTTGAAGAATTCATTGTTTACTGTTGACCCCTTAT ACTTTCTGGCTTTTGCATTGTTGCAATTAATAAAAAAAAAAAAAAAAAAGGCTGCCAGTAT TGTTACAGTGGGCTCTACAACCACAAGACAACCTATATTTGTAACCAGTGAGCTGAAT AACATGGCACAGGAAGTGTACTGAGACTTAATATCTCTCTAGTCTATACGTACGTACAT ACTCTTTCAGCTACAGCATACACTCAAAAAATATTTGATTGATGAAGTGAGATTAAGAGT ATCCTAAATGATCTGAAA</p>
Restriction Sites:	Please inquire
ACCN:	NM_005502
Insert Size:	9000 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:	<p>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.</p>
Components:	<p>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).</p>

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_005502.2 , NP_005493.2
RefSeq Size:	10412 bp
RefSeq ORF:	6786 bp
Locus ID:	19
UniProt ID:	O95477
Cytogenetics:	9q31.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ABC transporters
Gene Summary:	<p>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]</p>