

Product datasheet for **SC109688**

ABCD4 (NM_020324) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABCD4 (NM_020324) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABCD4
Synonyms:	ABC41; EST352188; MAHCJ; P70R; P79R; PMP69; PXMP1L
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC109688 sequence for NM_020324 edited (data generated by NextGen Sequencing)

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ATGGCCAGCAAGCTCATCATCTCCCCGTTACCCTCGTCTACTACACTTACCAGTGCTTC
CAAAGCACAGGCTGGCTCGGGCCTGTGAGCATCTTCGGGTATTTTCATCCTGGGGACCGTG
GTGAACAAAATTTGATGGGCCCCATTGTGATGAAGCTGGTGCATCAGGAGAAGCTGGAG
GGAGATTTTAGGTTCAAGCACATGCAGATTCGGGTGAATGCGGAGCCTGCTGCTTTCTAC
AGAGCTGGGCATGTGGAGCACATGAGGACAGACCGCAGGCTGCAGAGACTCCTTCAGACC
CAGAGGGAGCTGATGTCCAAGGAGCTCTGGCTGTACATCGGCATCAACACCTTTGACTAT
CTGGGCAGCATCCTGAGTTATGTTGTTCATCGCAATCCCCATTTTCAGCGGGTCTATGGA
GACCTGAGTCCCGCAGAGCTTAGCACCTGGTCAGCAAGAATGCCTTTGTGTGCATCTAC
CTCATCAGCTGCTTACCAGCTAATCGACCTGTCCACGACGCTCTCAGATGTGGCTGGC
TACACGCACAGAATTGGGCAGCTTCGGGAGACGCTTCTGGACATGTCCCTGAAGTACAG
GACTGCGAGATCCTGGGCGAGAGCGAGTGGGGCTTGACACACCCCCAGGGTGGCCAGCG
GCAGAGCCAGCAGACACAGCATTCTCCTTGAGCGGGTCTCCATCTCTGCCCCCTCTCT
GACAAACCCCTAATCAAGGATCTGAGCCTAAAGATCTCCGAGGGACAGAGCCTGCTCATC
ACAGGCAACACGGGCACTGGCAAGACCTCTTGCTCCGGGTCTAGGTGGCCTCTGGACG
AGTACACGGGGCTCAGTGCAGATGCTGACGGACTTTGGGCCCCATGGGGTCTATTCTCTG
CCACAAAAGCCATTCTTCACTGACGGGACCTTCGGGAGCAGGTGATATATCCCCTGAAG
GAGGTCTACCCCGACTCAGGTTCTGCCGATGATGAGAGGATCTTGAGGTTCTTGGAATTG
GCAGGCCGTGTCCAATTTGGTGGCAAGGACAGAGGGCTTGACCAGCAGGTGGACTGGAAC
TGGTATGATGTTCTGTCCCCGGGGGAGATGCAACGGCTCTCCTTTGCCGACTCTTCTAC
CTGCAGCCGAAGTACGCAGTGCTTGATGAAGCCACCAAGTGCCTGACAGAGGAAGTGGAG
AGCGAGCTCTATCGCATCGGCCAGCAGCTGGGGATGACGTTTCATCAGTGTGGGACATCGG
CAGAGCCTTGAGAAGTTTCACTTCTGGTTCTGAACTCTGTGGAGGAGGAAGATGGGAG
CTGATGAGAATCAAAGTGAATGA
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Clone variation with respect to NM_020324.1
504 c=>a;1056 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_020324 unedited

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NGGTTACATTTGTATACGACTCATATAGGCGCGCGNAATTTCGCACGAGGGCGGGGCC
CGCGCCCGGAGCTGGCGCCAGGCCAGGTTAGATCTGCAATTTCTCCAGCGGTTCTGCA
GATACTGAAGTTTTGTTTCTTCTTGGTCATCACAAAATGCCTTGATGTTCTGACCTT
TTTGTGCTGACCTACTGGAGCAATTTGTGATCTACCAGGTTGGCCTGATCCCCAGTCA
GTACTATGGGGTCTGGGAAACAAAGACTTGAAGGGTTAAGACTCTGACATTCCTGGC
TGTCATGCTCATTGTTCTGAACCTCACGCTGAAGAGCTTTGATCAGTTTACCTGCAACCT
GCTGTATGTGAGCTGGAGGAAGGACCTCACTGAGCACCTTCACCGCCTCTACTTCCGGGG
CCGTGCGTACTACACCTCAACGTGCTGCGGGATGACATCGATAACCCGGACACGCGCAT
CAGCCAGGACGTGGAGCGATTCTGCCGGCAGCTCAGCAGCATGGCCAGCAAGCTCATCAT
CTCCCCGTTACCCTCGTCTACTACACTTACCAGTGCTTCCAAAGCACAGGCTGGCTCGG
GCCTGTGAGCATCTTCGGGTATTTTCATCCTGGGGACCGTGGTGAACAAAATTTGATGGG
CCCCATTGTGATGAAGCTGGTGCATCAGGAGAAGCTGGAGGGAGATTTTAGGTTCAAGCA
CATGCAGATTTCGGGTGAATGCGGAGCCTGCTGCTTTCTACAGAGCTGGGCATGTGGAGCA
CATGANGACAGACCGNAGCTGCAGAGACTCCTTCAGACCCAGAGGGAGCTGATGTCCAA
GGAGCTCTGGCTGTACATCGGCATCAACACCTTTGACTATCTGGGCAGCANCCTGAGTTA
CGTTGTCATCGCAATCCCT
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_020324 unedited <pre> CTATGGACCCGCGGCCGAATCTAGGATCGAGTTNTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTCTTTTTTTTAAAAAAAACAAAAGCTGGAATCTTTTAATGGTTAAC TTTCTTTGAAAAAACTTATTAATAAACTTAAATGGGCAGTTAAAGTTAAAAATCTATT GCTGCACAATTTAACTGATTAAGATTCCAGATCTCTTGACTCCAAAAGTCATTTTTT TCATTTCTTACAAATCTCACACTTCCAAATTTCTTTTACCAACATGATCTGAAATCAT TTGTAGGTAATCAGCACTTCAAGCATATGGAGGCTTTGGCTGAGGCACCAAAGTCCTGGG AACTGAACACTGGGAAATTCAGTGTCCCCACAAAAACCTAAACCTGGGCTCAACCCAC CACTGCTAGGGGTCCTGCACAGGACCCATGTGGCTCCTGCCCGGATCTATGGGGCGAAC CTGAGCTCGATCTTCGTGTCTCCTCTCTCTCTGAGGGCCCGACCCGCCAC AGTGTGGCTCTCCTTCCAAAAGCCAGAGCTTCATTCCACTTTGATTCTTATCAGTCCCA TCTTCTCTCTCCAGAGTTTCAGAACCAAGGAATGAACTTCTCAAGGTTCTGCCGATTC CCCCACTGATAACGTATCCCCACCTGCTGGCCGATGCGATAGAGCTCGTCTCACTTCC TCTGCAAGGCACTGGTGCCTCATCAACCCCTGGCACTTCGGCTGAGGAAAAAGAGCGGGC AAAGAAACCGCTGCATTTCCCCCGGACAGACATTTTACAACCTCATCCACCGGTGGCC AGCCCTTGCTCCTTGCCCCAAGTGGCAGGCTCGCAATCCAAAACCTAAACCTCTTATATTG CAAACCTGATCGGGACCCCTTAGGGAATATACCCCCCCAGGCCCCACGG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_020324
Insert Size:	2240 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:	NM_020324.1 , NP_064720.1
RefSeq Size:	2787 bp
RefSeq ORF:	2787 bp
Locus ID:	5826
Cytogenetics:	14q24.3
Domains:	ABC_tran, AAA
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ABC transporters

Gene Summary:

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, White). This protein is a member of the ALD subfamily, which is involved in peroxisomal import of fatty acids and/or fatty acyl-CoAs in the organelle. All known peroxisomal ABC transporters are half transporters which require a partner half transporter molecule to form a functional homodimeric or heterodimeric transporter. The function of this peroxisomal membrane protein is unknown. However, it is speculated that it may function as a heterodimer for another peroxisomal ABC transporter and, therefore, may modify the adrenoleukodystrophy phenotype. It may also play a role in the process of peroxisome biogenesis. Alternative splicing results in several protein-coding and non-protein-coding variants. [provided by RefSeq, Jul 2017]

Transcript Variant: This variant (3), as well as variant 13, encodes isoform c. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.