

## Product datasheet for **SC304737**

### **ABCD4 (NM\_020325) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ABCD4 (NM_020325) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABCD4
Synonyms:	ABC41; EST352188; MAHCJ; P70R; P79R; PMP69; PXMP1L
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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<b>Fully Sequenced ORF:</b>	<p>&gt;NCBI ORF Sequence for NM_020325. The custom clone sequence may differ by one or more nucleotides</p> <pre> ATGGCGGTTCGCGGGGCCCCGCGCCGGAGCTGGCGCCAGGCCAGGTTAGATCTGCAATTT CTCCAGCGGTTCTGCAGATACTGAAGGTTTTGTTTCTTCTTGGTCATCACAAAATGCC TTGATGTTCTCGACCCCTTTGTGCCTGACCCTACTGGAGCAATTTGTGATCTACCAAGTT GGCTTGATCCCCAGTCAGTACTATGGGGTCTGGGAAACAAAGACTTGGAAAGGTTTAAAG ACTCTGACATTCCTGGCTGTCTGCTCATTGTTCTGAACCTCCAGCTGAAGAGCTTTGAT CAGTTTCACTGCAACCTGCTGTATGTGAGCTGGAGGAAGGACCTACTGAGCACCTTCAC CGCTCTACTTCCGGGGCGTGCCTACTACACCCTCAACGTGCTGCGGGATGACATCGAT AACCCGGACCAGCGCATCAGCCAGGACGTGGAGCGATTCTGCCGGCAGCTCAGCAGCATG GCCAGCAAGCTCATCATCTCCCCGTTACCCTCGTCTACTACACTACCAGTGCTTCCAA AGCACAGGCTGGCTCGGGCCTGTGAGCATCTTCGGGTATTTATCCTGGGGACCGTGGTG AACAAAATTTGATGGGCCCCATTGTGATGAAGCTGGTGCATCAGGAGAAGCTGGAGGGA GATTTTAGGTTCAAGCACATGCAGATTCGGGTGAATGCGGAGCCTGCTGCTTTCTACAGA GCTGGGCATGTGGAGCACATGAGGACAGACCGCAGGCTGCAGAGACTCCTTCAGACCCAG AGGGAGCTGATGTCCAAGGAGCTCTGGGTGTACATCGGCATCAACACCTTTGACTATCTG GGCAGCATCCTGAGTTATGTTGTCATCGCAATCCCCATTTTCAGCGGGGTCTATGGAGAC CTGAGTCCCGCAGAGCTTAGCACCTGGTCAGCAAGAATGCCTTTGTGTGCATCTACCTC ATCAGTGCTTACCCAGCTCATCGACCTGTCCACGACGCTCTCAGATGTGGCTGGCTAC ACGCACAGAAATGGGCAGCTTCGGGAGACGCTTCTGGACATGTCCCTGAAGTCACAGGAC TGCGAGATCCTGGGCGAGAGCGAGTGGGGCTTGGACACACCCCCAGGGTGGCCAGCGGA GAGCCAGCAGACACAGCATTTCCTTGAGCGGGTCTCCATCTCTGCCCTCCTCTGAC AAACCCATAATCAAGGATCTGAGCCTAAAGATCTCCGAGGGACAGAGCCTGCTCATCACA GGCAACACGGGCACTGGCAAGACCTCCTTGCTCCGGGTTCTAGGTGGCCTCTGGACGAGT ACACGGGGCTCAGTGCAGATGCTGACGGACTTTGGGCCCATGGGGTGTATTCTTGCCA CAAAAGCCATTCTCACTGACGGGACCCTTCGGGAGCAGGTGATATATCCCTGAAGGAG GTCTACCCCGACTCAGGTTCTGCCGATGATGAGAGGATCTTGGGTTCTTGAATTGGCA GGCCTGTCCAATTTGGTGGCAAGGACAGAGGGTCTGGACCAGCAGGTGGACTGGAATGG TATGATGTTCTGTCCCCGGGGAGATGCAACGGCTCTCCTTTGCCGACTCTTCTACCTG CAGCCGAAGTACGCAGTGCTTGATGAAGCCACCAGTGCCTGACAGAGGAAGTGGAGAGC GAGCTCTAT </pre>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_020325
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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\\_020325.1](#), [NP\\_064730.1](#)

**RefSeq Size:** 3098 bp

**RefSeq ORF:** 1779 bp

**Locus ID:** 5826

**Cytogenetics:** 14q24.3

**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 (4) contains a 171 bp insertion as a result of intron 18 retention. Inclusion of this intron results a premature stop codon and omission of the 14 amino-acid C-terminus present in transcript variant 1.