

Product datasheet for **SC319253**

ABCD4 (NM_005050) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABCD4 (NM_005050) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABCD4
Synonyms:	ABC41; EST352188; MAHCJ; P70R; P79R; PMP69; PXMP1L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_005050.2
 CAGGTCATGGCGGTGCGGGGCCCGCGCCCGGAGCTGGCGCCAGGCCAGGTTAGATCTG
 CAATTTCTCCAGCGGTTCTGACAGATACTGAAGGTTTTGTTTCTTCTTGGTCATCACAA
 AATGCCTTGATGTTCTGACCCCTTTTGTGCTGACCTACTGGAGCAATTTGTGATCTAC
 CAGGTTGGCCTGATCCCCAGTCACTACTATGGGGTCTGGGAAACAAAGACTTGAAGGG
 TTTAAGACTCTGACATTCCTGGCTGTATGCTCATTGTTCTGAACTCCACGCTGAAGAGC
 TTTGATCAGTTACCTGCAACCTGTGTATGTGAGCTGGAGGAAGGACCTCACTGAGCAC
 CTTACCCGCTCTACTTCCGGGGCGTGCCTACTACCCCTCAACGTGCTGCGGGATGAC
 ATCGATAACCCGGACCAGCGCATCAGCCAGGACGTGGAGCGATTCTGCCGCAGCTCAGC
 AGCATGGCCAGCAAGCTCATCTCCCGTTACCCCTCGTCTACTACACTTACCAGTGC
 TTCAAAGCACAGGCTGGCTCGGGCCTGTGAGCATCTTCGGGTATTTTCATCTGGGGACC
 GTGGTGAACAAAATTTGATGGGCCCCATTGTGATGAAGCTGGTGCATCAGGAGAAGCTG
 GAGGGAGATTTTAGGTTCAAGCACATGCAGATTCGGGTGAATGCGGAGCCTGCTGCTTTC
 TACAGAGCTGGGCATGTGGAGCACATGAGGACAGACCGCAGGCTGCAGAGACTCCTTCAG
 ACCCAGAGGGAGCTGATGTCCAAGGAGCTCTGGCTGTACATCGGCATCAACACCTTTGAC
 TATCTGGGCAGCATCCTGAGTTACGTTGTCATCGCAATCCCCATTTTCAGCGGGTCTAT
 GGAGACCTGAGTCCCACAGAGCTTAGCACCCCTGGTCAGCAAGAATGCCTTTGTGTGCATC
 TACCTCATCAGCTGCTTACCCAGCTAATCGACCTGTCCACGACGCTCTCAGATGTGGCT
 GGCTACACGCACAGAATTGGGCAGCTTTCGGGAGACGCTTCTGGACATGTCCCTGAAGTCA
 CAGGACTGCGAGATCCTGGGCGAGAGCAAGTGGGGCTTGACACACCCCCAGGGTGGCCA
 GCGGCAGAGCCAGCAGACACAGCATTTCCTTGAGCGGGTCTCCATCTCTGCCCCCTCC
 TCTGACAAACCCCTAATCAAGGATCTGAGCCTAAAGATCTCCGAGGACAGAGCCTGCTC
 ATCACAGGCAACACGGGCACTGGCAAGACCTCCTTGTCCGGGTTCTGGGTGGCCTTGG
 ACGAGTACACGGGGCTCAGTGCAGATGCTGACGACTTTGGGCCCATGGGGTGCTATTCT
 CTGCCACAAAAGCCATTCTCACTGACGGGACCCTTCGGGAGCAGGTGATATATCCCCTG
 AAGGAGGTCTACCCGACTCAGGTTCTGCCGATGATGAGAGGATCTTGAGGTTCTTGAA
 TTGGCAGGCTGTCCAATTGGTGGCAAGGACAGAGGGCTGGACCAGCAGGTGGACTGG
 AACTGGTATGATGTTCTGCCCCGGGGAGATGCAACGGCTCTCCTTTGCCGACTCTTC
 TACCTGCAGCCGAAGTACGCAGTCTTGTGAAGCCACCAGTGCCTGACAGAGGAAGTG
 GAGAGCGAGCTCTATCGCATCGCCAGCAGCTGGGGATGACGTTTCATCAGTGTGGGACAT
 CGGCAGAGCCTTGAGAAGTTTCATTCCTTGGTTCTGAACTCTGTGGAGGAGGAAGATGG
 GAGCTGATGAGAATCAAAGTGAATGAAGCTCTGGCTTTTGAAGGAGAGCCACACTGTG
 GCGGGTGGCGGGCCCTCAGGAGAGACCAGGAGGACTGACAGCGAAGATCGAGCTCAGGTT
 CGCCACATAGATCCCCTGCAGGAGCCACATGGGTCTGTGCAGGACCCCTAGCAGTGGTG
 GGCTGAGCCCAGGCTAGGTTTCTGTGGGGGACTGAATCTCCAGTGTTCAGTCTCCC
 AGGACTCTGTGCCTCAGCCAGAGCCTCCATATGCTTGAAGTGTGATTACCTACAAATG
 ATTTTCAGATCATGTTTGTAAAGAGAACTGGAAGTGTGAGATCTGAAGAAATGAAAG
 AAATGACTCTTGGAGTCAAGAGATCTGGAATCTTTAATCAGTTAAATTGTGCAGCAAT
 AGATTTTAACTTAACTGACCATTTAAGTTTTTAATAAGTTTTTACAAGAAAAGTT
 AAACATTAAGAAATTAACAGCTTCTGTCAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_005050

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).

OTI Annotation:	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.
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_005050.2 , NP_005041.1
RefSeq Size:	3149 bp
RefSeq ORF:	1821 bp
Locus ID:	5826
UniProt ID:	O14678
Cytogenetics:	14q24.3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ABC transporters
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (a).</p>