

## Product datasheet for **MC206248**

### **Abcd4 (BC050102) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Abcd4 (BC050102) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Abcd4
Synonyms:	P69r, P70R
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC050102  
 CTTTCCTCCTAGGGCGGGGCCCCGAGCTCTGAGGACTCTGCCCGGGGAGGACACCGGGCTTGCTCGGTCCG  
 CCTCGTCGCTTGCATCCCCGGTTCATGGCGGTCCCAGGACCCACGGCCCGAGCTGGTGCCAGGTGAGCAGG  
 GCTAGTGAGGACGGCCGGTGTGTCAGGGACGCACTGCCTGGGAGTGGGGAAGGGGCTGCTCCCCTGCGG  
 GTCCTTCCCTTGAACCTTTCCTTCAGTTTGGGCTATTTGGAACCTGGCTGCACAGAATGGAGTTGACGCT  
 GCCTCACTTAGGCCAGATTAGATCTGCAACTGTCCAGAGGTCGTGAGGATACAGAAGGTTTTCTTT  
 CCTTCTGGTTCATCAGAAATGTCTTAATGTTTCATGACGCTCTTGTGCGTGACCCTCTGGAGCAACTGG  
 TGATCTACCAAGTTGGCTTGATCCCCAGTCAGTATTATGGAGTCTTGGGAAACAAAGACCTGGATGGATT  
 TAAGGCACTGACCTTGCTGGCCGTGACACTTATTGTCCTCAACTCCACCCTGAAGAGCTTTGACCAGTTC  
 ACCTGCAACTGCTGTACGTGAGCTGGAGGAAGGACCTCACGGAGCACCTGCACCACCTGTACTTCCGGG  
 CCCGCGTGTACTACACCCTCAACGTGCTGCGGGACGACATTGATAATCCGGACCAGCAATCAGCCAGGA  
 TGTGGAGCGATTCTGCCCCAGCTCAGCAGCGTGACCAGCAAGCTGATCATTTCCCCTTCACTCTTACC  
 TACTACACTTACCAGTGTTCCAAAGCACAGGCTGGCTCGGGCCTGTGAGCATCTTTGGATATTTACC  
 TGGGACCATGGTGAACAAAACCTTTGATGGGGCCATCGTGACGAAGCTGGTGCAGCAGGAGAAGCTGGA  
 GGGGATTTTAGTTCAAGCACATGCAGATTGAGTGAATGCAGAGCCTCGGGCTTTCTATAGAGCTGGG  
 CTGCTCGAGCACATGAGGACAGACCCGAGGCTGCAGAGACTCCTTCAGACCCAGAGAGAGCTGATGTCCA  
 GGGAGCTCTGGCTGTACATTGGTATCAACACCTTTGACTATCTGGGCAGCATCCTGAGTTATGTCGTCAT  
 CGCTATCCCCATTTTCACTGGGGTCTATGGAGATTTGAGCCCCACAGAGCTTAGCACCTGGTGCAGCAAG  
 AATGCCTTTGTGTGCATCTACCTCATCAGCTGCTTACCCAGCTCATTGACCTGTCCACCACACTCTCGG  
 ATGTTGCCGTTACACACACAGGATTGGAGAGCTTCAAGAGGCCCTGCTGGACATGTCCCAGAAAACACA  
 AGACTGTGAAGCCCTAGGCGAGAGTGAGTGGGACTTGGACAAAACCCAGGGTGTCCAACAACAGAGCCA  
 TCAGACACAGCTTTTCTGCTCGATCGGGTTCCATATTGGCCCCCTCCTGACAAGCCCCTGATCAAGG  
 ACTTGAGCTTGAAGATCTGTGAGGGGAGAGTCTGCTCATCACAGGCAACACGGGCACTGGCAAGACCTC  
 CCTGCTCGGGGTGCTGGGAGCCCTGTGGGAGGGCATGAAAGGCTCAGTGCAGATGCTGGCTGATTTGGG  
 CCCCACGGGGTGCTGTTCTGCCTCAGAAGCCATTCTTCACTGATGGGACTTCCGGGAGCAGGTGATAT  
 ATCCCCTGAAGGAGATCTACCCTGACTCAGGTTCTGCGGACGATGAGAGGATTGTGAGGTTCTTGGAAAT  
 GGCAGGCCCTGTCCAGCTTGGTGGCAAGGACTGGAGGCTGGACCAGCAGGTGGATTGGAAGTGGTATGAT  
 GTCCTGTCCCAGGGGAGATGCAAAGACTCTCCTTCGCCCTCTTCTACCTGCAGCCCAAGTATGCAG  
 TTTCACTCCTGGGTTCTGAGACTCCACGGAGGAGGAAGCTGGGAGCTGACTAGAATCAAAGTGAATGAA  
 GGCAAGCATGCAGTTTCTGAGCAGCGGAGCTCCGGGGCTGCGGTGCCACAGACAAGGAAGCCCGA  
 TGAGCCGGAAGGAGCCACAGATTACCTGAGGCTTACACAGGAGCCCTAGCAGCTCTAGCCCTGCC  
 ACGGGTGGCGCTACAGGGAACACTGAGTCTCCCCAGCGCTGCTCCATGACTTCTTACTTCAAGATGACGT  
 TTGCTGCTGAAAAACGGAATGAACTGTAAGACGTGAAGGGCCAGGGTGAGAAAATATCGGACTCAAGAA  
 CTGGTGTGCCGGGCGGCGGCACGCCTTAATCCCAGCACTTGGGAGGCGAGGACAGGCGGATTTCTG  
 AGTTTCAAGCCAGCTGCTACAGAGTGAGTTCCAGGACAGCCAGGGCTATACAGAGAAACCTGTCTC  
 GAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** BC050102

**Insert Size:** 1560 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:** [BC050102](#), [AAH50102](#)

**RefSeq Size:** 2410 bp

**RefSeq ORF:** 1560 bp

**Locus ID:** 19300

**Cytogenetics:** 12 39.3 cM

**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 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 the human protein 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. [provided by RefSeq, Jul 2008]