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# Product datasheet for MR208310

## Abcd4 (BC050102) Mouse Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Abcd4 (BC050102) Mouse Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | Abcd4 |
| **Synonyms:** | P69r, P70R |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |



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**ORF Nucleotide Sequence:**

>MR208310 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGCTCTTGTGCGTGACCCTCCTGGAGCAACTGGTGATCTACCAAGTTGGCTTGATCCCCAGTCAGT
ATTATGGAGTCTTGGGAAACAAAGACCTGGATGGATTTAAGGCACTGACCTTGCTGGCCGTGACACTTAT
TGTCCTCAACTCCACCCTGAAGAGCTTTGACCAGTTCACCTGCAACCTGCTGTACGTGAGCTGGAGGAAG
GACCTCACGGAGCACCTGCACCACCTGTACTTCCGGGCCCGCGTGTACTACACCCTCAACGTGCTGCGGG
ACGACATTGATAATCCGGACCAGCGAATCAGCCAGGATGTGGAGCGATTCTGCCGCCAGCTCAGCAGCGT
GACCAGCAAGCTGATCATTTCCCCCTTCACTCTTACCTACTACACTTACCAGTGCTTCCAAAGCACAGGC
TGGCTCGGGCCTGTGAGCATCTTTGGATATTTCACCGTGGGGACCATGGTGAACAAAACTTTGATGGGGC
CCATCGTGACGAAGCTGGTGCAGCAGGAGAAGCTGGAGGGGGATTTTAGGTTCAAGCACATGCAGATTCG
AGTGAATGCAGAGCCTGCGGCTTTCTATAGAGCTGGGCTCGTCGAGCACATGAGGACAGACCGCAGGCTG
CAGAGACTCCTTCAGACCCAGAGAGAGCTGATGTCCAGGGAGCTCTGGCTGTACATTGGTATCAACACCT
TTGACTATCTGGGCAGCATCCTGAGTTATGTCGTCATCGCTATCCCCATTTTCAGTGGGGTCTATGGAGA
TTTGAGCCCCACAGAGCTTAGCACCCTGGTCAGCAAGAATGCCTTTGTGTGCATCTACCTCATCAGCTGC
TTCACCCAGCTCATTGACCTGTCCACCACACTCTCGGATGTTGCCGGTTACACACACAGGATTGGAGAGC
TTCAGGAGGCCCTGCTGGACATGTCCCGAAAATCACAAGACTGTGAAGCCCTAGGCGAGAGTGAGTGGGA
CTTGGACAAAACCCCAGGGTGTCCAACAACAGAGCCATCAGACACAGCTTTTCTGCTCGATCGGGTTTCC
ATATTGGCCCCCTCCTCTGACAAGCCCCTGATCAAGGACTTGAGCTTGAAGATCTGTGAGGGGCAGAGTC
TGCTCATCACAGGCAACACGGGCACTGGCAAGACCTCCCTGCTGCGGGTGCTGGGAGGCCTGTGGGAGGG
CATGAAAGGCTCAGTGCAGATGCTGGCTGATTTTGGGCCCCACGGGGTGCTGTTCCTGCCTCAGAAGCCA
TTCTTCACTGATGGGACACTTCGGGAGCAGGTGATATATCCCCTGAAGGAGATCTACCCTGACTCAGGTT
CTGCGGACGATGAGAGGATTGTGAGGTTCTTGGAATTGGCAGGCCTGTCCAGCTTGGTGGCAAGGACTGG
AGGTCTGGACCAGCAGGTGGATTGGAACTGGTATGATGTCCTGTCCCCAGGGGAGATGCAAAGACTCTCC
TTCGCCCGTCTCTTCTACCTGCAGCCCAAGTATGCAGTTTCACTCCTGGGTTCTGAGACTCCACGGAGGA
GGAAGCTGGGAGCTGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

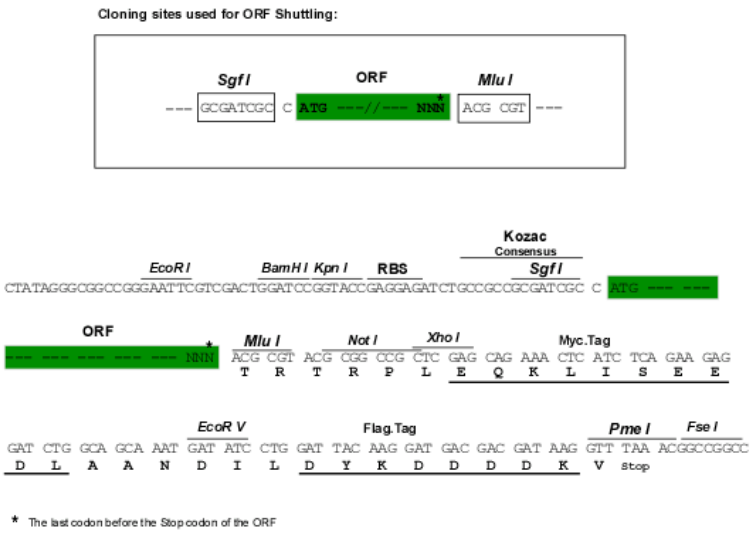
>MR208310 protein sequence
Red=Cloning site Green=Tags(s)

MTLLCVTLLEQLVIYQVGLIPSQYYGVLGNKDLDGFKALTLLAVTLIVLNSTLKSFDQFTCNLLYVSWRK
DLTEHLHHLYFRARVYYTLNVLRDDIDNPDQRISQDVERFCRQLSSVTSKLIISPFTLTYYTYQCFQSTG
WLGPVSIFGYFTVGTMVNKTLMGPIVTKLVQQEKLEGDFRFKHMQIRVNAEPAAFYRAGLVEHMRTDRRL
QRLLQTQRELMSRELWLYIGINTFDYLGSILSYVVIAIPIFSGVYGDLSPTELSTLVSKNAFVCIYLISC
FTQLIDLSTTLSDVAGYTHRIGELQEALLDMSRKSQDCEALGESEWDLDKTPGCPTTEPSDTAFLLDRVS
ILAPSSDKPLIKDLSLKICEGQSLLITGNTGTGKTSLLRVLGGLWEGMKGSVQMLADFGPHGVLFLPQKP
FFTDGTLREQVIYPLKEIYPDSGSADDERIVRFLELAGLSSLVARTGGLDQQVDWNWYDVLSPGEMQRLS
FARLFYLQPKYAVSLLGSETPRRRKLGAD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** BC050102

**ORF Size:** 1557 bp

**OTI Disclaimer:** 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

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:** 1559 bp

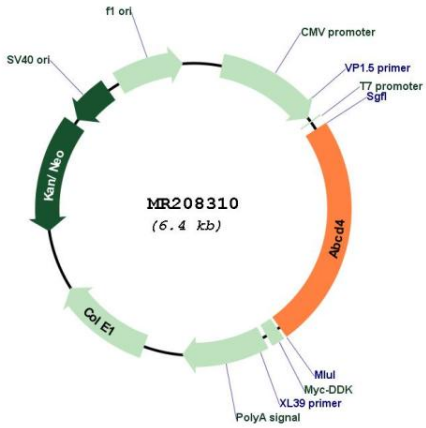
**Locus ID:** 19300

**Cytogenetics:** 12 39.3 cM

**MW:** 58.6 kDa

**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]

## Product images:




Circular map for MR208310