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Product datasheet for MC206353

Abcd2 (BC019187) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abcd2 (BC019187) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Abcd2
Synonyms:	ALDR, ABC39, ALDL1, ALDRP
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>BC019187
CCACGCGTCCGTAAGAGTAAAGGAGACAAGCTGCAGAGCATGGGAGGCTGTGGGGTCTTCTGAAACCTTT
GCTGGGCTTTCCGCGGAGCATGAGCTTTTAAAACGAATTCTTTTCAAAGAAACCCATTTGTGTAGCTGGA
AAAATGATACACATGCTAAATGCAGCAGCCTATCGGGTGAAATGGACCAGATCCGGTGCTGCTAAAAGGG
CTGCCTGCCTGGTGGCTGCGGCATATGCTCTGAAAACCCTCTATCCCATCATTGGCAAGCGTTTAAAGCA
GCCTGGCCACAGGAAGGCAAAAGCAGAAGCTTACTCGCCTGCAGAGAACAGAGAAATACTGCATTGCACG
GAGATCATCTGTAAAAAACCTGCGCCGGGACTAAATGCAGCTTTTTTCAAACAGCTACTAGAACTTCGGA
AAATCCTCTTTCCAAAACTTGTGACCACTGAAACGGGGTGGCTCTGCCTCCACTCGGTGGCTCTAATCTC
AAGAACATTTCTCTCTATTTATGTGGCTGGTCTGGATGGGAAAATCGTGAAAAGCATCGTGGAAAAGAAG
CCTCGGACTTTCATCATCAAATTAATCAAGTGGCTTATGATTGCTATCCCTGCTACCTTTGTCAACAGTG
CTATCAGGTACCTGGAATGCAAACTGGCATTGGCCTTTAGAACTCGCTTAGTAGACCATGCCTATGAGAC
CTATTTCGCAAATCAGACTTATTATAAGGTGATAAATATGGATGGGAGGCTGGCAAACCCTGACCAGTCT
CTTACCGAAGACATTATGATGTTCTCGCAATCTGTGGCTCACCTGTATTCCAACCTTACCAAACCTATTT
TAGATGTCATTCTAACCTCCTATACTCTCATCCGGACAGCTACATCCAGAGGAGCAAGCCCTATAGGGCC
CACCCTGTTAGCAGGACTTGTCGTGTATGCCACTGCTAAAGTACTGAAAGCTTGCTCGCCCAAATTTGGT
TCGCTGGTGGCTGAAGAAGCCCACAGGAAAGGCTACCTGCGGTATGTCCACTCCCGAATCATAGCCAATG
TAGAAGAAATTGCCTTCTACAGAGGACATAAGGTAGAAATGAAGCAGCTGCAGAAATGTTACAAGGCTTT
AGCTTACCAGATGAACCTGATTTTATCCAAACGTTTATGGTACATCATGATAGAACAATTCTTGATGAAG
TATGTGTGGAGCAGCTGTGGACTAATTATGGTGGCTATACCCATTATCACTGCAACGGGCTTTGCAGATG
GTGATCTGGAGGATGGTCCAAAGCAGGCTATGGTTAGCGATCGGACAGAGGCCTTCACCACTGCCCGGAA
CTTACTGGCCTCTGGAGCTGATGCAATTGAAAGGATTATGTCTTCATACAAAGAGATCACTGAACTAGCA
GGTTATACTGCTAGAGTATACAATATGTTCTGGGTCTTCGATGAAGTGAAGAGAGGCATTTATAAGAGAA
CTGTCACTCAGGAACCTGAAAACCATAGCAAGCGTGGAGGTAACCTGGAACTACCCCTCAGCGACACCCT
GGCCATCAAAGGAACAGTTATTGATGTGGATCATGGAATCATTTGTGAAAATGTTCCCATAATTACACCA
GCGGGCGAAGTGGTGGCTTCCAGGCTAAACTTCAAAGTGGAAGAAGGGATGCATCTCTTGATAACTGGTC
CCAACGGTTGTGGGAAAAGCTCTCTCTTCAGAATCTTAAGCGGGCTGTGGCCTGTGTATGAAGGAGTCCT
TTATAAACCGCCTCCCCAACATATGTTCTATATTCCACAGAGGCCATACATGTCTCTTGGAAGTCTCCGG
GATCAAGTCATTTACCCTGACTCAGCGGATGACATGCGTGAGAAAGGTTACACTGACCAAGACCTAGAAC
GCATCCTGCACAGCGTGCACCTCTACCACATAGTTCAAAGAGAAGGAGGATGGGATGCAGTCATGGACTG
GAAAGATGTCCTTTCCGGAGGGGAGAAGCAGAGAATGGGCATGGCGCGGATGTTTTACCATAAACCGAAG
TATGCATTGCTGGATGAATGTACCAGTGCCGTGAGCATCGACGTTGAAGGAAAGATATTTCAGGCTGCTA
TTGGGGCTGGGATTTCCCTACTCTCCATAACACACAGGCCTTCTCTGTGGAAATACCACACTCATCTATT
ACAATTCGATGGCGAAGGAGGCTGGCGCTTTGAACAGTTGGACACTGCTATCCGTTTAACGTTGAGTGAG
GAAAAGCAAAAGTTGGAGTCGCAGCTCGCTGGAATTCCCAAAATGCAACAGAGACTCAACGAACTATGCA
AAATTCTGGGGGAAGACTCGGTGCTGAAAACAATCCAAACTCCAGAAAAGACATCCTAATTTATCTTGAC
ATGTTTTCAGTTACCTTCTAGGTGAAGCCTCAGAGACTCTCTCTTTACTGCATGCAGTATGTTAAGCTAA
GTGCAGAGAAAGCAAGCCGGCAAAAAAAAAAGTATTTTGTATGATTTTAGCATCGAGGAAATATATGAAGA
CTTTTCAAACAAACAAACAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: BC019187

Insert Size: 2226 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:	BC019187, AAH19187
RefSeq Size:	2553 bp
RefSeq ORF:	2226 bp
Locus ID:	26874
Cytogenetics:	15 E3
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 this protein is speculated to function as a dimerization partner of Abcd1 and/or other peroxisomal ABC transporters. Mutations in the human gene have been observed in patients with adrenoleukodystrophy, a severe demyelinating disease. This gene has been identified as a candidate for a modifier gene, accounting for the extreme variation among adrenoleukodystrophy phenotypes. This gene is also a candidate for a complement group of Zellweger syndrome, a genetically heterogeneous disorder of peroxisomal biogenesis. [provided by RefSeq, Jul 2008]