

Product datasheet for **MG210364**

Abcd1 (NM_007435) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abcd1 (NM_007435) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Abcd1
Synonyms:	A; Ald; Aldgh; ALDP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210364 representing NM_007435
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGTGCTCTCCACTCCCCGGCCCTCACGGGTGACCACGCTGAAGCGCACAGCTGTGGTCTGGCCC
 TCACAGCCTATGGAGTCCACAAAATCTACCCTCTAGTACGGCAGTGTCTGACTCCTGCCAGAGGTCCTCA
 GGTGCCAGCTGGGGAGCCCACTCAAGAGGCCTCTGGAGCCACCGCAACCAAGGCTGGCATGAACCGGTA
 TTCCTGCAGCGGCTCTTGGCGCTCTGAGGCTGCTGTTCCCCGAGTCTTGTGCCGGAAACAGGGCTGC
 TGGCCCTGCATTCTGCTGCCCTGGTAAGCCGAACCTTCTGTCTGTGTATGTTGCCCGCTGGACGGCAG
 ACTGGCCCGCTGCATTGTACGTAAGGACCCGCGGGCCTTAGCTGGCAACTGCTGCAGTGGCTCCTCATC
 GCCCTTCTGCCACTTTCATCAACAGTCCATCCGCTACCTAGAGGGCCAGCTGGCTCTTCTTTCCGAA
 GCCGTCTAGTAGCTCATGCCTATGGACTCTACTTCTCCAACAGACTTACTACCGAGTAAGCAACATGGA
 TGGACGACTTCGAAACCCTGATCAGTCTCTGACAGAGGATGTGGTAGCCTTTGCTGCCTCTGTAGCCAC
 CTTTATTCCAACCTGACCAAGCCACTCCTGGATGTGGCTGTGACCTCCTACACTCTCCTTCGAGTGCCC
 GATCCCGAGGAGCTGGCACAGCCTGGCCCTCAGCCATCGCTGGCCTGGTGGTGTCTCAGACCCAACTG
 GCTTCGAGCCTTCTCTCCAAGTTTGGGGAGCTAGTGGCAGAGGAGGCACGGCGAAAGGGGAACTGCGC
 TACATGCACTCTCGAGTGGTGGCCAACCTCAGAGGAAATTCCTTCTACGGGGCCATGAGGTGAACTGG
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 TGTCATGCTGGAACAGTTCCTCATGAAATATGTGTGGAGTGCATCTGGCCTGCTCATGGTAGCTGTCCC
 ATCATCACAGCCACTGGCTATGCAGAGTCAGACTCAGAAGCCATGAAGAAGGCAGCCTTGAAATGAAGG
 AAGAGGAGCTGGTTAGTGAGCGTACAGAAGCTTTCACCATTTGCCGAAACCTCCTCACAGCTGCTCAGA
 TGCCACCGAAAGGATCATGTCTTATAAGGAGGTGACAGAGCTGGCTGGCTACACAGCCAGGGGTAC
 GAGATGTTCCAGGTATTTGAAGATGTCAAACACTGTCGTTTTAAGAGGACAGGAGATCTAGAGGAGGCTC
 AGGCTGGCCTGGGGTACGGTACAGTCTGGTGTCCATGTAGAGGGGCCCTGAAGATCCAAGGCCAAGT
 TGTGGATGTGGAGCAGGGGATCATCTGTGAGAACATCCCTATCATCACACCCACTGGAGAGGTGGTGGT
 GCCAGCCTCAACATCAGGGTGGAGGAAGGCATGCACCTGCTCATCACAGGCCCAATGGCTGTGGCAAGA
 GTTCTCTGTTCCGAATCCTAGGTGGACTCTGGCCACATACAGTGGTGTACTCTATAAGCCCCACCCCA
 GCGCATGTTCTATATCCCTCAGAGGCCCTACATGTCCGTGGGCTCCTTGGCTGACCAAGTATCTATCCC
 GACTCTGCGGAAGACATGCGGAGGAAGGGCTGCTCGGAGCAGCAGCTGGAAGCAATCCTGGGCATCGTGC
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 TGCACTAGTGCCGTGAGCATTGATGTGGAAGGCAAGATCTTCAAAGCAGCCAAAGATGCTGGTATCGCAC
 TGCTCTCCATACCCATCGACCCCTCCCTATGGAAGTACCACACACTTGTCTGCAGTTTGTATGGGGAAGG
 AGGCTGGAAGTTTGAGAAGCTGGATTCTGCTGCCCGCTGAGCCTGACTGAAGAGAAGCAGCGCCTGGAG
 CAGCAACTGGCGGGCATCCCAAGATGCAGGGGCGCCTCAGGAGCTCCGCCAGATCCTTGGCGAAGCTG
 CAGCTCCAGTTCAACCCCTGGTCCCAGGAGTCCCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210364 representing NM_007435
 Red=Cloning site Green=Tags(s)

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MPVLSTPRPSRVTTLKRTAVVLALTAYGVHKIYPLVRQCLTPARGPQVPAGEPTQEASGATATKAGMNRV
FLQRLALLRLLFPRVLCRETGLLALHSAALVSRFTLSVYVARLDGRLARCIVRKDPRAFQWLLQWLLI
ALPATFINSAIRYLEGQLALSFRSRLVAHAYGLYFSQQTYYRVSNDGRLRNPQSLTEDVVAFAASVAH
LYSNLTKPLLDVAVTSYLLRAARSRGAGTAWPSAIAGLVVFLTANVLRASFSPKFGELVAEEARRKGELR
YMHSRVVANSEEIAFYGGHEVELALLQHSYQDLASQINLILLERLWYVMLEQFLMKYVWSASGLLMVAVP
IITATGYAESDSEAMKKALEMKEEELVSETEAFTIARNLLTAAADATERIMSSYKEVTELAGYARVY
EMFQVVFEDVKHCRFKRTGDLEEAQAGPGVMVQSGVHVEGPLKIQQQVVDVEQGIICENIPIITPTGEVVV
ASLNIRVEEGMHLLITGPNCGKSSLFRLGGLWPTYSGVLKPPPQRMFYIPQRPYMSVGLRDQVIYP
DSAEDMRRKGCSEQQLEAILGIVHLRHILQREGGWEAVCDKDWLDSGGEKQRIGMARMFYHRPKYALLDE
CTSAVSIDVEGKIFQAAKDAGIALLSITHRPSLWKYHHTLLQFDGEGGWKFEKLDSAARLSLTEEKQRLE
QQLAGIPKMQGRLQELRQILGEAAPVQPLVPGVPT
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

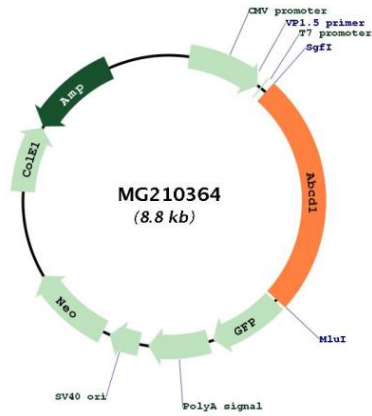


ACCN: NM_007435

ORF Size: 2208 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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:	<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_007435.2 , NP_031461.1
RefSeq Size:	3421 bp
RefSeq ORF:	2211 bp
Locus ID:	11666
UniProt ID:	P48410
Cytogenetics:	X 37.39 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. This peroxisomal membrane protein is likely involved in the peroxisomal transport or catabolism of very long chain fatty acids. Defects in the human gene have been identified as the underlying cause of adrenoleukodystrophy, an X-chromosome recessively inherited demyelinating disorder of the nervous system. [provided by RefSeq, Jul 2008]

Product images:



Circular map for MG210364