

Product datasheet for **MG217316**

Abcd4 (NM_008992) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abcd4 (NM_008992) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Abcd4
Synonyms:	P6; P69r; P70R; Pxm; Pxmp1l
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG217316 representing NM_008992
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGTCCCGGACCCACGGCCCGAGCTGGTGCCAGGCCAGATTAGATCTGCAACTGTCCAGAGGT
 TCGTGAGGATACAGAAGTTTTCTTCTTCTGGTCATCACAGAATGTCTTAATGTTTCATGACGCTCTT
 GTGCGTGACCCTCCTGGAGCAACTGGTATCTACCAAGTTGGCTTGATCCCCAGTCAGTATTATGGAGTC
 TTGGGAAACAAAGACCTGGATGGATTTAAGGCACTGACCTTGCTGGCCGTGACACTTATTGCTCAACT
 CCACCCTGAAGAGCTTTGACCAGTTCACCTGCAACCTGCTGTACGTGAGCTGGAGGAAGGACCTCACGGA
 GCACCTGCACCACCTGTACTTCCGGGCCCGGTGACTACACCCTCAACGTGCTGCGGGACGACATTGAT
 AATCCGGACCAGCAATCAGCCAGGATGTGGAGCGATTCTGCCGCCAGCTCAGCAGCGTGACCAGCAAGC
 TGATCATTTCCCTTCACTCTTACCTACTACACTACCAGTCTTCAAAGCACAGGCTGGCTCGGGCC
 TGTGAGCATCTTTGGATATTTTCATCGTGGGACCATGGTGAACAAAATTTGATGGGGCCATCGTGACG
 AAGCTGGTGCAGCAGGAGAAGCTGGAGGGGATTTTAGGTTCAAGCACATGCAGATTCGAGTGAATGCAG
 AGCCTGCGGCTTTCTATAGAGCTGGGCTCGTCGAGCACATGAGGACAGACCCGAGGCTGCAGAGACTCCT
 TCAGACCCAGAGAGAGCTGATGTCCAGGGAGCTCTGGCTGTACATTGGTATCAACACCTTTGACTATCTG
 GGCAGCATCCTGAGTTATGTCGTCATCGCTATCCCCATTTTCACTGGGGTCTATGGAGATTTGAGCCCCA
 CAGAGCTTAGCACCTGGTCAGCAAGAATGCCTTTGTGTGCATCTACCTCATCAGCTGCTTACCCAGCT
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 CTGCTGGACATGTCCGAAAATCACAAGACTGTGAAGCCCTAGGCGAGAGTGAGTGGGACTTGGACAAA
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 CTCTCTGACAAGCCCTGATCAAGACTTGAGCTTGAAGATCTGTGAGGGGCAGAGTCTGCTCATCACA
 GGCAACACGCGGACTGGCAAGACCTCCCTGCTGCGGGTGTGGGAGGCCTGTGGGAGGCATGAAAGGCT
 CAGTGCAGATGCTGGCTGATTTTGGGCCACGGGGTGTGTTCTGCTCAGAAGCCATTCTTCACTGA
 TGGGACACTTCGGGAGCAGGTGATATATCCCTGAAGGAGATCTACCCTGACTCAGGTTCTGCGGACGAT
 GAGAGGATTGTGAGGTTCTTGAATTGGCAGGCCTGTCCAGCTTGGTGGCAAGGACTGGAGGTCTGGACC
 AGCAGGTGGATTGAACTGGTATGATGTCCTGTCCCCAGGGGAGATGCAAAGACTCTCCTCGCCCGTCT
 CTTCTACCTGCAGCCCAAGTATGCAGTGTGATGAAGCCACCAGTGCCTGACAGAGGAAGCAGAGAGT
 GAGCTCTACCGAATTGGTCAGCAACTGGGGATGACATTTATCAGCGTGGGACATCGTCCCAGCCTTGAGA
 AGTTTCACTCCTGGGTTCTGAGACTCCACGGAGGAGGAAGCTGGGAGCTGACTAGAACTCAAAGTGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG217316 representing NM_008992
 Red=Cloning site Green=Tags(s)

MAVPGPTARAGARPRDLQLVQRFVRIQKVFFPSWSSQNVLMFMTLLCVTLLEQLVIYQVGLIPSQYYGV
 LGNKDLDFGFKALTLAVTLIVLNSTLKSFDQFTCNLLYVSWRKDLTEHLHLYFRARVYYTLNVLRDDID
 NPDQRISQDVERFCRQLSSVTSKLIISPFITYTYQCFQSTGWLGPVSIIFYVIGTMVNKTLMPPIVT
 KLVQQEKELEGDFRFKHMQIRVNAEPAAFYRAGLVEHMRDRRLQRLQTQRELSRELWL YIGINTFDYL
 GSILSYVVIAIPIFSGVYGDLSPELSTLVSKNAFVCIYLI SCFTQLIDLSTTLDVAGYTHRIGELQEA
 LLDMSRKSQDCEALGESEWDLKTPGCPTEPSTDAFLLDVRSILAPSSDKPLIKDLSLKICEGQSLIT
 GNTGTGKTSLLRVLGGLWEGMKGSVQMLADFGPHGVLFLPQKPFPTDGLREQVIYPLKEIYPSDGSADD
 ERIVRFLELAGLSSLVARTGGLDQVDWNYDVLSPGEMQRLSFARLFYLPKYAVLDEATSALTEEAES
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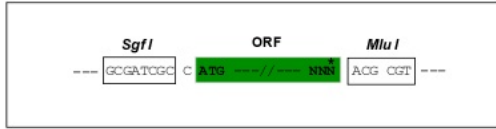
TRTRPLE - GFP Tag - V

Restriction Sites:

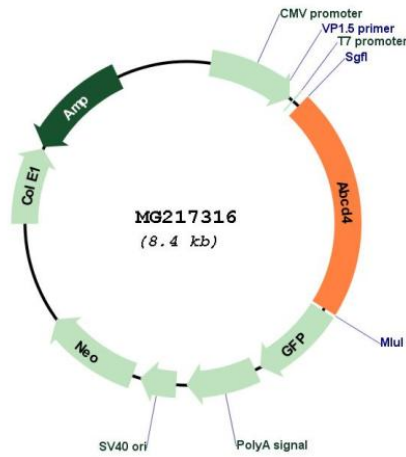
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_008992
 ORF Size: 1818 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:	<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_008992.2 , NP_033018.2
RefSeq Size:	2527 bp
RefSeq ORF:	1821 bp
Locus ID:	19300
UniProt ID:	O89016
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]