

Product datasheet for **MR205328**

Abhd5 (NM_026179) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abhd5 (NM_026179) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Abhd5
Synonyms:	1300003D03Rik; 2010002J10Rik; CDS; CGI-58; IECN5; NCIE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205328 representing NM_026179 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAGCGATGGCGCGGAGGAGGAGGTGGACTCGGCAGACGCCGGTGGAGGGTCAGGATGGCTGACAG
GGTGGCTTCTACCTGGTGTCCACATCTACATCACACCTTAAAGAAGCTGAAGAGAAAAATGTTAAATG
TGTCCTCCGCACTTACAAGAAAGAGCCTGTGCGCATATCCAATGGAAACAGAATATGGACGCTGATGTT
TCTCACAACATTTCTAGTAAGACGCCACTTGCCTCCTCATGGTTTTGGAGGAGGTCTGGACTTTGGG
CCCTGAATTTTGAAGATCTAAGCACCGATAGGCCTGTCTATGCCTTTGACCTATTGGGCTTCGGAAGAAG
TAGTAGACCTAGGTTTGACAGTGTGCGGAAGAAGTGGAGAATCAGTTTGTGGAATCCATTGAAGAGTGG
AGATGTGCCCTCAGGTTGGACAAAATGATCTTGCTTGGACACAACCTGGGAGGGTCTTGCTGCGCCTT
ACTCACTGAAGTACCCATCAAGGGTTAGTCACCTCATTTTAGTAGAGCCATGGGGTTTTCTGAGCGACC
AGATCTTGCTGATCAAGAGAGACCAATCCAGTTTGGATCAGGGCCCTAGGGGCAGCATTGACTCCCTTT
AACCCCTTGGCTGGCCTCAGGATTGCAGGACCTTTGGGTTAAGTCTAGTGCAGCGTTTGGAGCCTGATT
TCAAGCGAAGTACTCCTCTATGTTTGAAGATGACACGGTGACAGAGTACATCTACCACTGTAATGTACA
AACCCCAAGTGGTGAGACAGCTTTCAAAAACATGACGATTCTTATGGGTGGGCCAAACGGCCAATGTTT
CAGCGGATAGGTGGCTTGCATCCTGACATTCCAGTTTTCAGTGATCTTTGGAGCCGATCCTGCATAGATG
GCAACTCTGGAACAGCATCCAGTCACTGCGACCGAAGTCTACGTGAAGACAATTGCCATCCTCGGGGC
GGGCATTATGTGTATGCAGATCAGCCAGAAGAATTCAACCAGAAAGTCAAGGAGATCTGCCACACAGTA
GAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205328 representing NM_026179
Red=Cloning site Green=Tags(s)

MKAMAAEEEEVDSADAGGGSGWL TGWLPTWCPTSTSHLKEAEEKMLKCVPTCYKKEPVRI SNGNRIWTLMF
 SHNISSKTPLVLLHGFGGGLGLWALNFEDLSTDRPVYAFDLLGFRSSRPRFSDAE EVENQFVESIEEW
 RCALRLDKMILLGHNLLGGFLAAAYSLKYPSRVSHLILVEPWGFPERPDLADQERP IPVWIRALGAALTPF
 NPLAGLRIAGPFGLSLVQRLRPDFKRKYSSMFEDDTVTEYIYHCNVQTPSGETA FKNMTIPYGWAKRPMF
 QRIGGLHPDIPVSVIFGARSCIDGNSGTSIQSLRPKSYVKTIAILGAGHYVYADQP EEFNQKVKIEICTH
 D

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_026179

ORF Size: 1053 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: [NM_026179.1](#), [NM_026179.2](#), [NP_080455.1](#)

RefSeq Size: 3148 bp

RefSeq ORF: 1056 bp

Locus ID: 67469

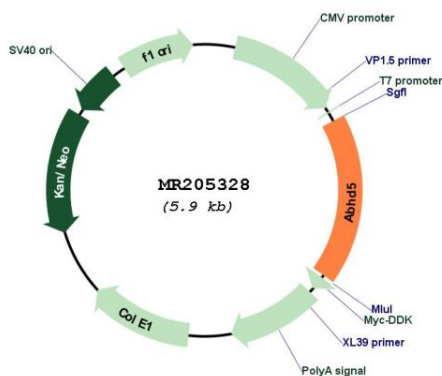
UniProt ID: [Q9DBL9](#)

Cytogenetics: 9 F4

MW: 39.2 kDa

Gene Summary: Coenzyme A-dependent lysophosphatidic acid acyltransferase that catalyzes the transfert of an acyl group on a lysophosphatidic acid (PubMed:19801371). Functions preferentially with 1-oleoyl-lysophosphatidic acid followed by 1-palmitoyl-lysophosphatidic acid, 1-stearoyl-lysophosphatidic acid and 1-arachidonoyl-lysophosphatidic acid as lipid acceptor (PubMed:19801371). Functions preferentially with arachidonoyl-CoA followed by oleoyl-CoA as acyl group donors (PubMed:19801371). Functions in phosphatidic acid biosynthesis (By similarity). May regulate the cellular storage of triacylglycerol through activation of the phospholipase PNPLA2 (PubMed:16679289). Involved in keratinocyte differentiation (By similarity). Regulates lipid droplet fusion (PubMed:26083785).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205328