

## Product datasheet for **MG205328**

### Abhd5 (NM\_026179) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Abhd5 (NM_026179) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Abhd5
Synonyms:	1300003D03Rik; 2010002J10Rik; CDS; CGI-58; IECN5; NCIE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205328 representing NM_026179 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAAGCGATGGCGCGGAGGAGGAGGTGGACTCGGCAGACGCCGGTGGAGGGTCAGGATGGCTGACAG  
GGTGGCTTCTACCTGGTGTCCACATCTACATCACACCTTAAAGAAGCTGAAGAGAAAATGTTAAAATG  
TGTCCTGCCTTACAAGAAAGAGCCTGTGCGCATATCCAATGGAAACAGAATATGGACGCTGATGTT  
TCTCACAACATTTCTAGTAAGACGCCACTTGCCTCCTCATGGTTTTGGAGGAGGTCTGGACTTTGGG  
CCCTGAATTTTGAAGATCTAAGCACCGATAGGCCTGTCTATGCCTTTGACCTATTGGGCTTCGGAAGAAG  
TAGTAGACCTAGGTTTGACAGTGTGCGGAAGAAGTGGAGAATCAGTTTGTGGAATCCATTGAAGAGTGG  
AGATGTGCCCTCAGGTTGGACAAAATGATCTTGCTTGGACACAACCTGGGAGGGTCTTGCTGCGCCTT  
ACTCACTGAAGTACCCATCAAGGGTTAGTCACTCATTCTTAGTAGAGCCATGGGGTTTTCTGAGCGACC  
AGATCTTGCTGATCAAGAGAGACCAATCCAGTTTGGATCAGGGCCCTAGGGGCAGCATTGACTCCCTTT  
AACCCCTTGGCTGGCCTCAGGATTGCAGGACCTTTGGGTTAAGTCTAGTGCAGCGTTTGAGGCCTGATT  
TCAAGCGAAGTACTCCTCTATGTTTGAAGATGACACGGTGACAGAGTACATCTACCACTGTAATGTACA  
AACCCCAAGTGGTGAGACAGCTTTCAAAAACATGACGATTCTTATGGGTGGGCCAAACGGCCAATGCTT  
CAGCGGATAGGTGGCTTGCATCCTGACATTCCAGTTTCAGTGATCTTTGGAGCCGATCCTGCATAGATG  
GCAACTCTGGAACAGCATCCAGTCACTGCGACCGAAGTCTACGTGAAGACAATTGCCATCCTCGGGGC  
GGGCATTATGTGTATGCAGATCAGCCAGAAGAATTCAACCAGAAAGTCAAGGAGATCTGCCACACAGTA  
GAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205328 representing NM\_026179  
 Red=Cloning site Green=Tags(s)

```

MKAMAAEEEVDSADAGGGSGWL TGWLPTWCPTSTSHLKEAEEKMLKCVPTYKKEPVRI SNGNRIWTLMF
SHNISSKTPLVLLHGFGGGLGLWALNFEDLSTDRPVYAFDLLGFRSSRPRFSDAE EENQFVESIEEW
RCALRLDKMILLGHNLLGGFLAAAYSLKYPSRVSHLILVEPWGFFPERPD LADQERP IPVWIRALGAALTPF
NPLAGLRIAGPFGLSLVQRLRPDFKRKYSSMFEDD TVTEYIYHCNVQTPSGE TAFKNM TIPYGWAKRPL
QRIGGLHPDIPVSVIFGARSCIDNSGTSIQSLRPKSYVKTI AILGAGHYVYADQP EEFNQKVKEICHTV
D
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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\\_026179.2](#), [NP\\_080455.1](#)

**RefSeq Size:** 3148 bp

**RefSeq ORF:** 1056 bp

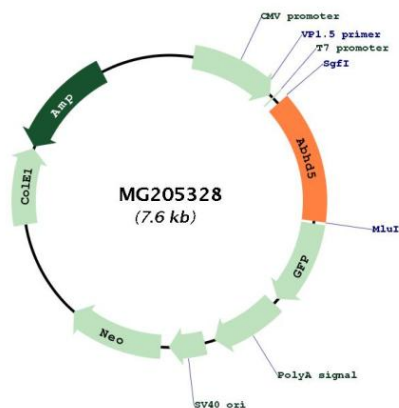
**Locus ID:** 67469

**UniProt ID:** [Q9DBL9](#)

**Cytogenetics:** 9 F4

**Gene Summary:** Coenzyme A-dependent lysophosphatidic acid acyltransferase that catalyzes the transfer 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 MG205328