

Product datasheet for **MG204987**

Abhd6 (NM_025341) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Abhd6 (NM_025341) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Abhd6
Synonyms: 0610041D24Rik; AA673485; AV065425
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204987 representing NM_025341
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATCTCGATGTGGTTAACATGTTTGTGATTGCGGGTGGGACCCTGGCCATCCAATCCTGGCATTG
 TTGCGTCTTTCCTCCTGTGGCCTTCAGCACTGATAAGAATCTATTATTGGTACTGGCGGAGGACACTGGG
 CATGCAAGTTCGCTACGCACACCATGAGGACTATCAGTTCTGTTACTCCTCCGGGGCAGGCCAGGACAC
 AAGCCATCTATCCTTATGCTCCATGGATTCTCCGCACACAAGGACATGTGGCTCAGCGTGGTCAAGTTCC
 TTCCGAAGAACCTGCACTTGGTCTGTGTGGACATGCCTGGGCATGAAGGCACTACCCGCTCCTCCCTGGA
 TGACCTGTCCATAGTGGGACAAGTAAAAGGATACATCAGTTTGTAGAATGCCTTAAGCTGAACAAAAAG
 CCCTTTCACCTTATAGGCACCTCCATGGGTGGCCACGTGGCTGGAGTATATGCCGCTTACTACCCATCTG
 ATGTCTGCAGCCTGTCTCTCGTGTGTCCTGCTGGCCTGCAGTATCAACTGACAATCCTTTTGTACAACG
 GCTCAAAGAGCTGGAGGAGTCACTGCCATTGAGAAGATCCCTTGATCCCATCCACCCCGGAAGAGATG
 AGTGAGATGCTGCAGCTCTGCTCCTATGTCCGCTCAAGGTGCCCCAGCAGATCCTTCAAGGTCTTGTG
 ATGTTTCGATTCCTCATAACAGCTTCTACCGAAATGTTTTGGAAATCGTCAATGAGAAATCCAGATA
 CTCTCTGCATGAGAATATGGACAAGATCAAGTCCCGACACAGATCATTGGGGGAAACAAGACCAGGTG
 CTTGATGTGTCCGGGCGAGACATATTAGCCAAGTCAATCTCTAACTCCCAGGTAGAGGTTCTGAAAACT
 GTGCCATTCCGGTAGTGATGGAGAGACCGAGGAAGACGCAAGTCAATGTCGACTTTTGTAGCTTCTGT
 GCATAACACAGACAACAAGAAGCTGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204987 representing NM_025341
 Red=Cloning site Green=Tags(s)

MDLDVVMFVIAGGTLAIPILAFVASFLLWPSALIRIYYWYWRRTLGMQVRYAHHEDYQFCYSFRGRPGH
 KPSILMLHGFSAHKDMWLSVVKFLPKNLHLVCVDMPGHEGTRRSLDDLIVGQVKRIHQFVECLKLNKK
 PFHLIGTSMGGHVAGVYAAAYPSDVCSLSLVCAPAGLQYSTDNPFVQRLKEEESAATQKIPLIPSTPEEM
 SEMLQLCSYVRFKVPQQILQGLVDVRIPHNSFYRKLFLFLEIVNEKSRYSLHENMDKIKVPTQIIWGKQDQV
 LDVSGADILAKSISNSQVEVLENCGHSVVMERPRKTAKLIVDFLASVHNTDNKKLN

TRTRPLE - GFP Tag - V

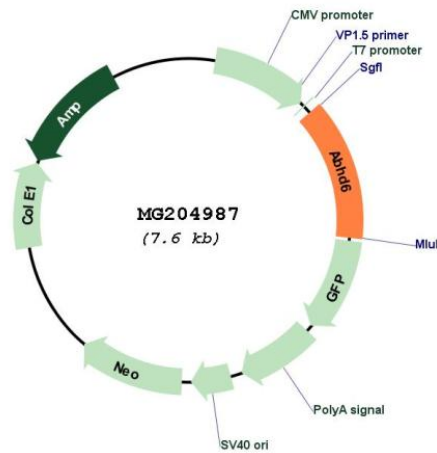
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_025341

ORF Size: 1008 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:

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_025341.3](#), [NP_079617.2](#)

RefSeq Size: 2018 bp

RefSeq ORF: 1011 bp

Locus ID: 66082

UniProt ID: [Q8R2Y0](#)

Cytogenetics: 14 A1

Gene Summary: Lipase that preferentially hydrolysis medium-chain saturated monoacylglycerols including 2-arachidonoylglycerol (PubMed:18096503, PubMed:20657592). Through 2-arachidonoylglycerol degradation may regulate endocannabinoid signaling pathways (PubMed:18096503, PubMed:20657592). Also has a lysophosphatidyl lipase activity with a preference for lysophosphatidylglycerol among other lysophospholipids (PubMed:24095738). Also able to degrade bis(monoacylglycero)phosphate (BMP) and constitutes the major enzyme for BMP catabolism (PubMed:26491015). BMP, also known as lysobisphosphatidic acid, is enriched in late endosomes and lysosomes and plays a key role in the formation of intraluminal vesicles and in lipid sorting (PubMed:26491015).[UniProtKB/Swiss-Prot Function]