

Product datasheet for **MG205135**

Abhd4 (NM_134076) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Abhd4 (NM_134076) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Abhd4
Synonyms: 1110035H23Rik; Abh4; AI429574
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG205135 representing NM_134076
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGATGATCTGGAGCAGCAGCCTCAGGGCTGGCTGAGTAGCTGGCTCCCCACTTGGCGCCCCACTT
CCATGTCTCAACTGAAGAATGTGGAAGCCAGGATCCTCCAGTGTCTCCAGAACAAGTTCCTGGCCCGTTA
TGTATCCCTCCAAACCAGAACAAGATCTGGACGGTGACTGTGAGCCCAGAACAAAAGGATCGCACCCCT
CTGGTGTGGTACATGGCTTTGGGGCGGTGTGGGCTCTGGATCCTCAACATGGATTCAGTGTGCC
GCCGCACACTTCATACCTTTGATCTGCTTGGTTTTGGGCGAAGCTCAAGGCCAACATCCCAAGGGACCC
AGAAGGAGCTGAAGATGAGTTTGTGGCCTCAATAGAGACATGGCGGGAGACCATGGGAATCCCACCATG
ATCCTCCTGGGGCACAGTTTGGGAGGATTCCTGGCCACTTCTTACTCTATCAAGTACCCTGAAAGAGTTA
AACATCTTATCCTGGTGGATCCATGGGGCTTTCCCTACGACCAACTGACCCTAGTGAGATCCGTGCACC
TCCAACCTGGGTCAAGGCTGTGGCATCTGTCTGGGACGTTCCAATCCACTGGCTGTTCTTCGAGTGGCT
GGGCTTGGGGGCTGGGCTGGTGCAGAGATCCGTCCAGACTTCAAGCGCAAGTTTGCAGACTTCTTTG
AGGATGACACCATCTCGGAATACATCTACCACTGCAATGCACAGAATCCCAGTGGGGAACGGCATTCAA
AGCCATGATGGAGTCCTTTGGCTGGGCCCGGCCCATGTTGGAGCGAATCCACTTAATTCGAAAAGAT
GTGCCCCACCATGATCTATGGGGCCAACACCTGGATAGATACCAGCACAGGGAAGAAGGTGAAGATGC
AAAGCCGATTCTACGTCCGAGACATGGAGATCGAGGGCGCATCCACACGTCATGCTGACCAGCC
ACACATCTTAATGCTGTGGTAGAAGAGATCTGCAACTCAGTTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205135 representing NM_134076
 Red=Cloning site Green=Tags(s)

MADDLEQQPQGWLSSWLPTWRPTSMSQLKNVEARILQCLQNKFLARYVSLPNQNKIWTVTVSPEQKDRTP
 LVMVHGFGGVGLWILNMDLSARRTLHTFDLLGFGRSSRPTFPRDPEGADEFVASIETWRETMGIPTM
 ILLGHSLGGFLATSYSIKYPERVKHLILVDPWGFPLRPTDPSEIRAPPTWVKAVASVLRSNPLAVLRVA
 GPWGPGLVQRFRPDFKRKFADFEDDTISEYIYHCNAQNPSETAFKAMMESFGWARRPMLERIHILIRKD
 VPITMIYGANTWIDTSTGKKVKMQRPDSYVRDMEIEGASHHVYADQPHIFNAVVEEICNSVD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_134076

ORF Size: 1026 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_134076.3](#)

RefSeq Size: 2351 bp

RefSeq ORF: 1068 bp

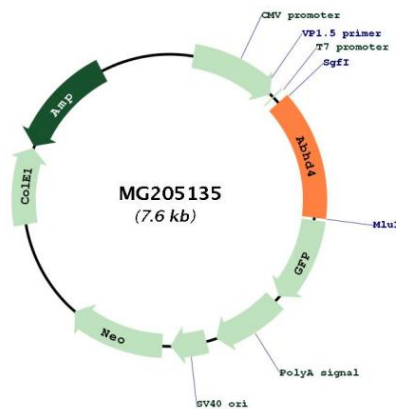
Locus ID: 105501

UniProt ID: [Q8VD66](#)

Cytogenetics: 14 C2

Gene Summary: Lysophospholipase selective for N-acyl phosphatidylethanolamine (NAPE). Contributes to the biosynthesis of N-acyl ethanolamines, including the endocannabinoid anandamide by hydrolyzing the sn-1 and sn-2 acyl chains from N-acyl phosphatidylethanolamine (NAPE) generating glycerophospho-N-acyl ethanolamine (GP-NAE), an intermediate for N-acyl ethanolamine biosynthesis (PubMed:16818490, PubMed:25853435). Hydrolyzes substrates bearing saturated, monounsaturated, polyunsaturated N-acyl chains (PubMed:16818490, PubMed:25853435). Shows no significant activity towards other lysophospholipids, including lysophosphatidylcholine, lysophosphatidylethanolamine and lysophosphatidylserine (PubMed:16818490).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG205135