

Product datasheet for **MR205135**

Abhd4 (NM_134076) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Abhd4 (NM_134076) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Abhd4 |
| Synonyms: | 1110035H23Rik; Abh4; AI429574 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR205135 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGATGATCTGGAGCAGCAGCCTCAGGGCTGGCTGAGTAGCTGGCTCCCCACTTGGCGCCCCACTT
CCATGTCTCAACTGAAGAATGTGGAAGCCAGGATCCTCCAGTGTCTCCAGAACAAGTTCCTGGCCCGTTA
TGTATCCCTCCCAAACCAGAACAAGATCTGGACGGTGACTGTGAGCCCAGAACAAAAGGATCGCACCCCT
CTGGTGTGGTACATGGCTTTGGGGCGGTGTGGGCTCTGGATCCTCAACATGGATTCAGTGTGCC
GCCGCACACTTCATACCTTTGATCTGCTTGGTTTTGGGCGAAGCTCAAGGCCAACATCCCAAGGGACCC
AGAAGGAGCTGAAGATGAGTTTGTGGCCTCAATAGAGACATGGCGGGAGACCATGGGAATCCCACCATG
ATCCTCCTGGGGCACAGTTTGGGAGGATTCCTGGCCACTTCTTACTCTATCAAGTACCCTGAAAGAGTTA
AACATCTTATCCTGGTGGATCCATGGGGCTTTCCCTACGACCAACTGACCCTAGTGAGATCCGTGCACC
TCCAACCTGGGTCAAGGCTGTGGCATCTGTCTGGGACGTTCCAATCCACTGGCTGTTCTTCGAGTGGCT
GGGCTTGGGGCCTGGGCTGGTGCAGAGATCCGTCCAGACTTCAAGCGCAAGTTTGCAGACTTCTTTG
AGGATGACACCATCTCGGAATACATCTACCACTGCAATGCACAGAATCCCAGTGGGAAACGGCATTCAA
AGCCATGATGGAGTCCTTTGGCTGGGCCCGGCCCATGTTGGAGCGAATCCACTTAATTCGAAAAGAT
GTGCCCATCACCATGATCTATGGGGCCAACACCTGGATAGATACCAGCACAGGGAAGAAGGTGAAGATGC
AAAGCCGGATTCTACGTCCGAGACATGGAGATCGAGGGCGCATCCACACGTCATGCTGACCAGCC
ACACATCTTCAATGCTGTGGTAGAAGAGATCTGCAACTCAGTTGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205135 protein sequence
Red=Cloning site Green=Tags(s)

MADDLEQQPQGWLSSWLPTWRPTSMSQLKNVEARILQCLQNKFLARYVSLPNQNKIWTVTVSPEQKDRTP
 LVMVHGFGGVGLWILNMDLSARRTLHTFDLLGFRSSRPTFPRDPEGADEFVASIETWRETMGIPTM
 ILLGHSLGGFLATSYSIKYPERVKHLILVDPWGFPLRPTDPSEIRAPPTWVKAVASVLRSNPLAVLRVA
 GPWGPGLVQRFRPDFKRKFADFEDDTISEYIYHCNAQNPSGETAFKAMMESFGWARRPMLERIHILRKD
 VPITMIYGANTWIDTSTGKKVKMQRPDSYVRDMEIEGASHHVVADQPHIFNAVVEEICNSVD

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_134076

ORF Size: 1029 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: 2406 bp

RefSeq ORF: 1068 bp

Locus ID: 105501

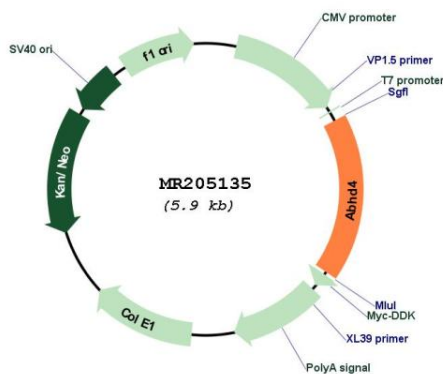
UniProt ID: [Q8VD66](#)

Cytogenetics: 14 C2

MW: 38.9 kDa

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 MR205135