

Product datasheet for MR205835

Agpat3 (NM_053014) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Agpat3 (NM_053014) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Agpat3
Synonyms: AW061257; AW493985; D10Jhu12e; lpaat3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR205835 representing NM_053014
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCCTGCTTGCCCTACCTGAAGACCCAGTTCGTGGTGCACCTGCTCATTGGCTTCGTCTTCGTGGTGA
 GCGGGTTAATTATCAACTTCACCCAGCTGTGCACACTGGCCCTCTGGCCCATCAGCAAGCACCTATACCG
 CCGTATCAACTGCCGCTTGGCCTACTCGCTCTGGAGCCAGCTGGTCATGCTCCTGGAGTGGTGGCTCTGC
 ACGGAGTGCACCTCTTCCACCGACCAGGCCACCGTGGACCACTTTGGGAAGGAGCATGTGGTTGTTATCC
 TCAACCACAACCTCGAGATCGACTTCCTTTGTGGGTGGACGATGTGCGAGCGGTTTGGCGTCTGGGGAG
 CTCCAAGGTGCTGGCTAAGAGGGAGCTGCTGTGTGTGCCCTCATCGGCTGGACGTGGTACTTCCTAGAG
 ATCGTATTCTGCAAACGGAAGTGGGAGGAAGACCCGGACACCGTCATAGAGGGCCTGAGGCGCTTAGCTG
 ACTACCCAGAGTACATGTGGTTTCTCCTGTACTGCGAAGGAACACGCTTCACAGAGACCAAGCATCGCAT
 CAGCATGGAGGTGGCTGCCTCCAAGGGGCTGCCCCACTCAAGTACCACCTGCTGCCCGGACCAAGGGC
 TTTACCACGGCAGTCCAGTGCCTCCGGGGACAGTTGCAGCTATCTATGACGTGACCCTGAACCTTCAGAG
 GGAACAAGAACCATCTCTACTGGGGATCCTGTATGGGAAGAAATATGAGGCAGACATGTGTGTGAGGAG
 GTTCCCCCTGGAAGACATCCCAGCAGATGAGACCAGCCCGCCAGTGGCTTCAACAGCTGTACCAGGAG
 AAGGATGCCCTGCAAGAGATGTACAAGCAGAAGGTGTATTCCCAGGGGAGCAGTTCAAGCCTGCCCGAA
 GGCCGTGGACCCTCCTGAACTTCCTGTGCTGGGCCACCATCCTCCTCTCACCCCTTTCAGCTTCGTCTCT
 GGGTGTCTTTGCCAGTGGATCCCGCTCCTCATCTGACGTTCTTGGGGTTCGTGGGAGCAGCTTCCTTC
 GGAGTCCGGAGACTGATAGGAGTACTGAGATAGAGAAAGGCTCCAGCTATGGCAACCAAGAGCTTAAGA
 AAAAGGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR205835 representing NM_053014
Red=Cloning site Green=Tags(s)

MGLLAYLKTQFVVHLLIGFVVFVVSGLIINFTQLCTLALWPISKHLYRRINCRLAYSLWSQLVMLLEWWSCTECTLFTDQATVDHFGKEHVIVLNHNFEIDFLCGWTMCERFVGLGSSKVLAKRELLCVPLIGWTWYFLEIVFCRKRWEEDRDTVIEGLRRLADYPEYMWFLLYCEGTRFTETKHRISMEVAASKGLPPLKYHLLPRTKGFTTAVQCLRGTVAAYIDVTLNFRGNKNPSELLGILYGGKYEADMCVRRFPLEDIPADETSAAQWLHKLYQEKDALQEMYKQKGVFPGEQFKPARRPWTLNLFNCWATILLSPLFSFVLGVFASGSPILLITFLGVGAASFVRRRLIGVTEIEKGSSYGNQELKKKE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9019_b09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_053014

ORF Size: 1128 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_053014.3](#), [NP_443747.2](#)

RefSeq Size: 3439 bp

RefSeq ORF: 1131 bp

Locus ID: 28169

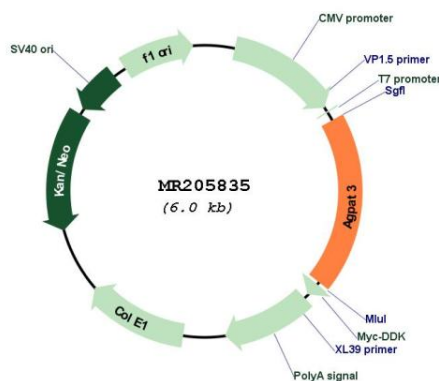
UniProt ID: [Q9D517](#)

Cytogenetics: 10 39.72 cM

MW: 43.7 kDa

Gene Summary: Converts 1-acyl-sn-glycerol-3-phosphate (lysophosphatidic acid or LPA) into 1,2-diacyl-sn-glycerol-3-phosphate (phosphatidic acid or PA) by incorporating an acyl moiety at the sn-2 position of the glycerol backbone (PubMed:15367102). Acts on LPA containing saturated or unsaturated fatty acids C16:0-C20:4 at the sn-1 position using C18:1, C20:4 or C18:2-CoA as the acyl donor (By similarity). Also acts on lysophosphatidylcholine, lysophosphatidylinositol and lysophosphatidylserine using C18:1 or C20:4-CoA (By similarity). Has a preference for arachidonoyl-CoA as a donor (PubMed:19114731). Has also a modest lysophosphatidylinositol acyltransferase (LPIAT) activity, converts lysophosphatidylinositol (LPI) into phosphatidylinositol (PubMed:19114731).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205835