

Product datasheet for **RC205826**

1 AGP acyltransferase 4 (AGPAT4) (NM_020133) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	1 AGP acyltransferase 4 (AGPAT4) (NM_020133) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	1 AGP acyltransferase 4
Synonyms:	1-AGPAT4; dj473j16.2; LPAAT-delta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205826 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCTCGCGGGACTGCTGAAGTCTCAGTTCCTGTGCCACCTGGTCTTCTGCTACGTCTTTATTGCCT
CAGGGCTAATCATCAACACCATTAGCTCTTCACTCTCCTCTGGCCATTAAACAAGCAGCTCTCCG
GAAGATCAACTGCAGACTGTCTATTGCATCTCAAGCCAGCTGGTATGCTGCTGGAGTGGTGGTGGGGC
ACGGAATGCACCATCTTACGGACCCGCGCCTACCTCAAGTATGGGAAGGAAAATGCCATCGTGGTTC
TCAACCACAAGTTTGAATTGACTTTCTGTGTGGCTGGAGCCTGTCCGAACGCTTTGGGCTGTTAGGGGG
CTCCAAGTCTGGCCAAGAAAGAGCTGGCCTATGTCCCAATTATCGGCTGGATGTGGTACTTCACCGAG
ATGGTCTTCTGTTTCGCGCAAGTGGGAGCAGGATCGCAAGACGGTTGCCACCAAGTTTGCAGCACCTCCGGG
ACTACCCCGAGAAGTATTTTTCTGATTCAGTGTGAGGGCACACGGTTCACGGAGAAGAAGCATGAGAT
CAGCATGCAGGTGGCCCGGGCCAAGGGGCTGCCTCGCCTCAAGCATCACCTGTTGCCACGAACCAAGGGC
TTCGCCATCACCGTGAGGAGCTTGAGAAATGTAGTTTTCAGCTGTATGACTGTACACTCAATTTTCAGAA
ATAATGAAAATCCAACACTGTGGGAGTCTAAACGGAAAAGAAAATACCATGCAGATTTGTATGTTAGGAG
GATCCCAGTGAAGACATCCCTGAAGACGATGACGAGTGTCTGGCCTGGTGCACAAGCTCTACCAGGAG
AAGGATGCCTTTTCAGGAGGAGTACTACAGGACGGGCACCTTCCAGAGACGCCCATGGTGGCCCCCGGGC
GGCCTGGACCCTCGTGAAGTGGCTGTTTTGGCCTCGCTGGTGTCTACCCCTTTCCAGTTCCCTGGT
CAGCATGATCAGGAGCGGGTCTTCCCTGACGCTGGCCAGCTTCATCCTCGTCTTCTTTGTGGCCTCTGTG
GGAGTTCGATGGATGATTGGTGTGACGGAATTGACAAGGGCTCTGCCTACGGCAACTCTGACAGCAAGC
AGAAACTGAATGAC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205826 protein sequence
Red=Cloning site Green=Tags(s)

MDLAGLLKSQFLCHLVFCYVFIASGLIINTIQLFTLLLWPINKQLFRKINCRLSYCISSQLVMLLEWWSG
 TECTIFTDPRAYLKYGKENAIVLVNHHKFEIDFLCGWSLSERFGLLGGSKVLAKKELAYVPIGWMMYFTE
 MVFCSRKWEQDRKTVATSLQHLRDYPEKYFFLIHCEGTRFTEKKHEISMVQVARAKGLPRLKHLLPRTKG
 FAITVRSLRNVVSAVYDCTLNFRNNENPTLLGVLNGKKYHADLYVRRIPLEDIPEDDDECSAWLHKLYQE
 KDAFQEEYYRTGTFPETPMVPPRRPWTLVNWLFWASLVLYPFFQFLVSMIRSGSSLTLASFILVFFVASV
 GVRWMIGVTEIDKGSAYGNSDSKQLND

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6066_g09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_020133

ORF Size: 1134 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_020133.3](#)

RefSeq Size: 7889 bp

RefSeq ORF: 1137 bp

Locus ID: 56895

UniProt ID: [Q9NRZ5](#)

Cytogenetics: 6q26

Domains: Acyltransferase

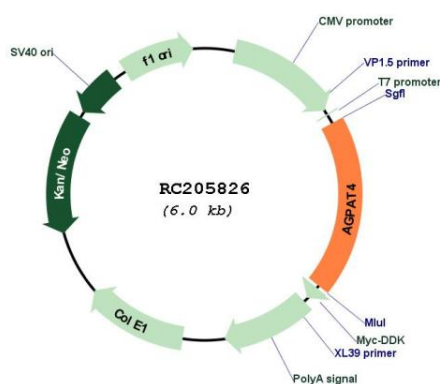
Protein Families: Transmembrane

Protein Pathways: Ether lipid metabolism, Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways

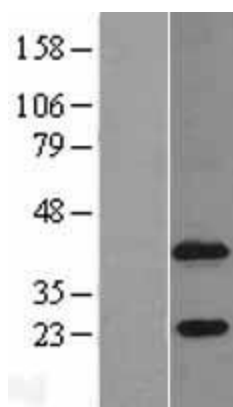
MW: 44 kDa

Gene Summary: This gene encodes a member of the 1-acylglycerol-3-phosphate O-acyltransferase family. This integral membrane protein converts lysophosphatidic acid to phosphatidic acid, the second step in de novo phospholipid biosynthesis. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC205826



Western blot validation of overexpression lysate (Cat# [LY402752]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205826 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).