

Product datasheet for RC210280

AGPAT5 (NM_018361) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AGPAT5 (NM_018361) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AGPAT5
Synonyms:	1AGPAT5; LPAATE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210280 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCTGTCCCTGGTCTCCACAGTACTCCATGCGCTACCTGCTGCCAGCGTCGTGCTCCTGGGCA
CGGCGCCACCTACGTGTTGGCCTGGGGGTCTGGCGGCTGCTCTCCGCCTTCTGCCCGCCGCTTCTA
CCAAGCGCTGGACGACCGGCTCTACTGCGTCTACCAGAGCATGGTGTCTTCTTCTCGAGAATTACACC
GGGTCCAGATATTGCTATATGGAGATTTGCCAAAAATAAGAAAAATAATATATTTAGCAAATCATC
AAAGCACAGTTGACTGGATTGTTGCTGACATCTTGCCATCAGGCAGAATGCGCTAGGACATGTGCGCTA
CGTGTGAAAGAAGGTTAAAATGGCTGCCATTGTATGGGTGTTACTTTGCTCAGCATGGAGGAATCTAT
GTAAGCGCAGTGCCAAATTTAACGAGAAAGAGATGCGAAACAAGTTGCAGAGCTACGTGGACGCAGGAA
CTCCAATGTATCTTGTGATTTTTCCAGAAGGTACAAGGTATAATCCAGAGCAAACAAAAGTCCTTTCAGC
TAGTCAGGCATTTGCTGCCAACGTGGCCTTGCAATTTAAAACATGTGCTAACACCACGAATAAAGGCA
ACTCACGTTGCTTTTATTGATGATGAAGAATTTTAGATGCAATTTATGATGTTACGGTGGTTTATGAAG
GGAAAGACGATGGAGGGCAGCGAAGAGAGTCACCGACCATGACGGAATTTCTCTGCAAAGAATGTCCAAA
AATTCATATTCACATTGATCGTATCGACAAAAAGATGTCCAGAAGAACAAGAACATATGAGAAGATGG
CTGCATGAACGTTTCGAAATCAAAGATAAGATGCTTATAGAATTTATGAGTCACCAGATCCAGAAAGAA
GAAAAAGATTTCTGGGAAAAGTGTAAATTCAAATTAAGTATCAAGAAGACTTTACCATCAATGTTGAT
CTTAAGTGGTTTGACTGCAGGCATGCTTATGACCGATGCTGGAAGGAAGCTGTATGTGAACACCTGGATA
TATGGAACCTACTTGGCTGCCTGTGGTTACTATTAAGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC210280 protein sequence
Red=Cloning site Green=Tags(s)

MLLSVLHTYSMRYLLPSVLLGTAPTYVLAWGVWRLLSAFLPARFYQALDDRLYCVYQSMVLFFENYT
 GVQILLYGDLPKNKENIYLANHQSTVDWIVADILAIRQNALGHVRYVLKEGLKWLPLYGCYFAQHGGIY
 VKRSKAFNEKEMRNKLQSYVDAGTPMYLVIFPEGTRYNPEQTKVLSASQAFAAQRGLAVLKHVLT
 THVAFDCMKNYLDIAIYDVTVVYEKGDDGGQRRESPTMTEFLCKECPKIHIIHIDRIDKDDVPEEQEHMRRW
 LHERFEIKDKMLIEFYESDPERRKRFPKGSVNSKLSIKKTLPSMLILSGLTAGMLMTDAGRKLYVNTWI
 YGTLGLCLWVTIKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6269_a11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_018361

ORF Size: 1092 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_018361.5](#)

RefSeq Size: 5535 bp

RefSeq ORF: 1095 bp

Locus ID: 55326

UniProt ID: [Q9NUQ2](#)

Cytogenetics: 8p23.1

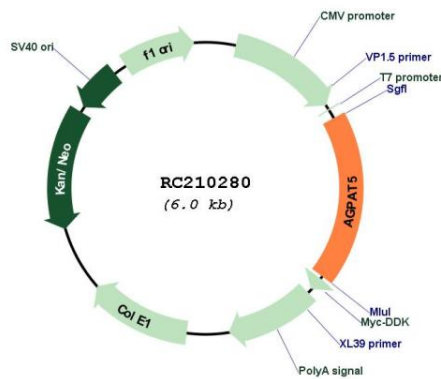
Domains: Acyltransferase

Protein Families: Transmembrane

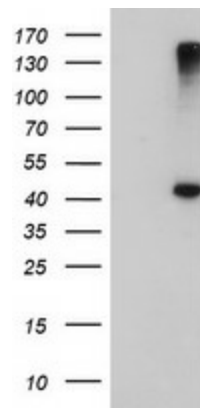
MW: 42.1 kDa

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. A pseudogene of this gene is present on the Y chromosome. [provided by RefSeq, Aug 2014]

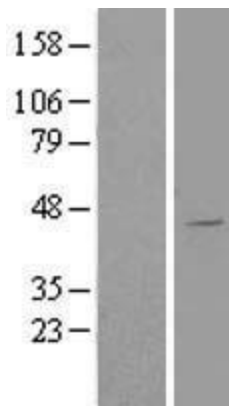
Product images:



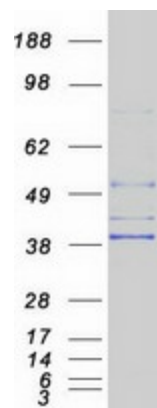
Circular map for RC210280



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY AGPAT5 (Cat# RC210280, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-AGPAT5 (Cat# [TA504192]). Positive lysates [LY413113] (100ug) and [LC413113] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY413113]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210280 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AGPAT5 protein (Cat# [TP310280]). The protein was produced from HEK293T cells transfected with AGPAT5 cDNA clone (Cat# RC210280) using MegaTran 2.0 (Cat# [TT210002]).