

## Product datasheet for **RG210280**

### AGPAT5 (NM\_018361) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AGPAT5 (NM_018361) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AGPAT5
Synonyms:	1AGPAT5; LPAATE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210280 representing NM_018361 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGCTGTCCCTGGTCTCCACAGTACTCCATGCGCTACCTGCTGCCAGCGTCGTGCTCCTGGGCA  
CGGCGCCACCTACGTGTTGGCCTGGGGGTCTGGCGGCTGCTCTCCGCCTTCTGCCCGCCGCTTCTA  
CCAAGCGCTGGACGACCGGCTCTACTGCGTCTACCAGAGCATGGTGTCTTCTTCTCGAGAATTACACC  
GGGTCCAGATATTGCTATATGGAGATTTGCCAAAAATAAGAAAATATAATATATTTAGCAAATCATC  
AAAGCACAGTTGACTGGATTGTTGCTGACATCTTGCCATCAGGCAGAATGCGCTAGGACATGTGCGCTA  
CGTGTGAAAGAAGGTTAAAATGGCTGCCATTGTATGGGTGTTACTTTGCTCAGCATGGAGGAATCTAT  
GTAAGCGCAGTGCCAAATTTAACGAGAAAGAGATGCGAAAACAAGTTGCAGAGCTACGTGGACGCAGGAA  
CTCCAATGTATCTTGTGATTTTTCCAGAAGGTACAAGGTATAATCCAGAGCAAACAAAAGTCCTTTTCAGC  
TAGTCAGGCATTTGCTGCCCAACGTGGCCTTGCAATTTAAACATGTGCTAACACCACGAATAAAGGCA  
ACTCACGTTGCTTTTGTGATGAAGAATTATTTAGATGCAATTTATGATGTTACGGTGGTTTATGAAG  
GGAAAGACGATGGAGGGCAGCGAAGAGAGTCACCGACCATGACGGAATTTCTCTGCAAAGAATGTCCAAA  
AATTCATATTACATTGATCGTATCGACAAAAAGATGTCCAGAAGAACAAGAACATATGAGAAGATGG  
CTGCATGAACGTTTCGAAATCAAAGATAAGATGCTTATAGAATTTATGAGTCACCAGATCCAGAAAGAA  
GAAAAAGATTTCTGGGAAAAGTGTAAATTCAAATTAAGTATCAAGAAGACTTTACCATCAATGTTGAT  
CTTAAGTGGTTTGACTGCAGGCATGCTTATGACCGATGCTGGAAGGAAGCTGTATGTGAACACCTGGATA  
TATGGAACCTACTTGGCTGCCTGTGGTTACTATTAAGCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG210280 representing NM\_018361  
 Red=Cloning site Green=Tags(s)

MLLSVLHTYSMRYLLPSVLLGTAPTYVLAWGVWRLLSAFLPARFYQALDDRLYCVYQSMVLFFENYT  
 GVQILLYGDLPKNKENIYLANHQSTVDWIVADILAIRQNALGHVRYVLKEGLKWLPLYGCFYQHGIIY  
 VKRSKAFNEKEMRNKLQSYVDAGTPMYLVIFPEGTRYNPEQTKVLSASQAFAAQRGLAVLKHVLT  
 THVAFDCMKNYLDAIYDVTVVYEKDDGGQRRESPTMTEFLCKECPKIHIDRIDKKDVPPEEQEHMRRW  
 LHERFEIKDKMLIEFYSPDPERRKRFPKGSVNSKLSIKKTLPSMLILSGLTAGMLMTDAGRKLYVNTWI  
 YGTLGCLWVTIKA

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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](#)

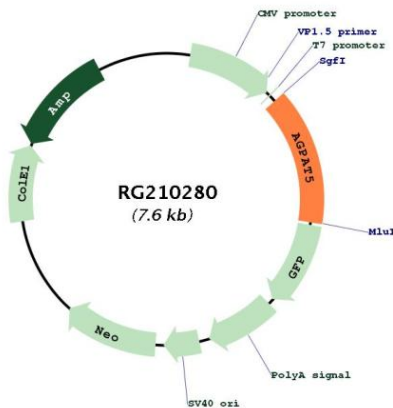
**Cytogenetics:** 8p23.1

**Domains:** Acyltransferase

**Protein Families:** Transmembrane

**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 RG210280