

Product datasheet for **RG210488**

AGPAT7 (LPCAT4) (NM_153613) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AGPAT7 (LPCAT4) (NM_153613) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AGPAT7
Synonyms:	AGPAT7; AYTL3; LPAAT-eta; LPEAT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210488 representing NM_153613
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCCAGGGAAGTCCGGGGACTGGGCCCCCTAGATCCCACCCCGACCCCAAGCATCCCCAACCC
 CCTTCGTGCATGAGTTACATCTCTCTCGCTCCAGAGGGTTAAGTTCTGCCTCCTGGGGGATTGCTGGC
 CCCCATCCGAGTGCTTCTGGCCTTTATCGTCTCTTTCTCCTCTGGCCCTTTGCCTGGCTTCAAGTGGCC
 GGTCTTAGTGAGGAGCAGCTTCAGGAGCAATTACAGGATGGAGGAAGACTGTGTGCCACAACGGGGTGC
 TAGGCCTGAGCCGCTGCTGTTTTCTGCTGGGCTTCTCCGGATTCGCGTTCTGGCCAGCGAGCCTC
 TCGCCTCAAGCCCTGCTTGTGCTGCCCCACTCCACTTTCTTTGACCCATTGTTCTGCTGCC
 TGTGACCTGCCAAAGTTGTGTCCGAGCTGAGAACCTTCCGTTCTGTATTGGAGCCCTTCTCGAT
 TCAACCAAGCCATCCTGGTATCCCGCATGACCCGGCTTCTCGACGCAGAGTGGTGGAGGAGTCCGAAG
 GCGGGCCACCTCAGGAGCAAGTGGCCGAGGTGCTATTCTTTCTGAGGGCACCTGTTCCAACAAGAAG
 GCTTTGCTAAGTTCAAACAGGAGCCTTCATCGCAGGGTGCCTGTGCAGCCTGCTCATCCGCTACC
 CCAACAGTCTGGACACCACAGCTGGGCATGGAGGGTCTGGAGTACTCAAAGTCTCTGGCTCACAGC
 CTCTCAGCCCTGCAGATTGTGGATGTGGAGTTCTTCTGTGTATCACCCAGCCCTGAGGAGAGCAGG
 GACCCACCCCTATGCCAAATGTTCCAGAGGGTCAAGGACAGGCTCTGGGCATTCCAGCCACCGAAT
 GTGAGTTTGTAGGGAGCTTACCTGTGATTGTGGTGGGCCGGTGAAGGTGGCGTTGAACACAGCTCTG
 GAACTGGGAAAAGTCTTCGAAGGCTGGGCTGTCCGCTGGCTATGTGGACGCTGGGCGAGCCAGGC
 CGGAGTCGAATGATCAGCCAGGAAGAGTTGCCAGGCAGCTACAGCTCTGATCCTCAGACGGTGGCTG
 GTGCCTTTGGCTACTTCCAGCAGGATACCAAGGGTTTGGTGGACTTCCGAGATGTGGCCCTGCACTAGC
 AGCTCTGGATGGGGCAGGAGCCTGGAAGAGCTAACTCGTCTGGCCTTTGAGCTCTTTGCTGAAGAGCAA
 GCAGAGGGTCCCAACCGCTGCTGTACAAAGACGGCTTACGACCATCCTGCACCTGCTGCTGGGTTTAC
 CCCACCCCTGCTGCCACAGCTTTGCATGCTGAGCTGTGCCAGGCAGGATCCAGCCAAGGCCTCTCCCTCTG
 TCAGTTCCAGAATCTCCCTCCATGACCCACTCTATGGGAACTCTTCCAGCACCTACCTGCGCCCCCA
 CACACCTCTCGAGGCACCTCCAGACACCAATGCCTCATCCCCAGGCAACCCACTGCTCTGGCCAATG
 GGACTGTGCAAGCACCAAGCAGAAGGGAGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG210488 representing NM_153613
 Red=Cloning site Green=Tags(s)

MSQSPGDWAPLDPTPGPPASPMPFVHELHLSRLQRVKFCLLGALLAPIRVLLAFIVLFLWPFAWLQVA
 GLSEEQLQEPITGWRKTVCHNGVLLSRLFFLLGFLRIRVRGQRASRLQAPVLAAPHSTFFDPIVLLP
 CDLPKVVSRANLSVPVIGALLRFNQAILVSRHDPASRRRVVEEVRRRATSGGKWPQVLFPEGTCSNKK
 ALLKFKPGAFIAGVPVQPVLI RYPNSLDTTSWAWRGPVGLKVLWLTASQPCSIVDVEFLPVYHPSPEESR
 DPTLYANNVQRVMAQALGIPATECEFGVSLPVIIVGRLKVALEPQLWELGKVLKAGLSAGYVDAGAEPG
 RSRMISQEEFARQLQLSDPQTVAGAFGYFQQDTKGLVDFRDVALALAALDGGRSLEELTRLAFELFAEEQ
 AEGPNRLLYKDFSTILHLLGSPHPAATALHAELCQAGSSQGLSLCQFQNFSLHDPYGLKLFSTYLRPP
 HTSRGTSQTPNASSPGNPTALANGTVQAPKQKGD

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_153613

ORF Size: 1572 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_153613.3](#)

RefSeq Size: 1908 bp

RefSeq ORF: 1575 bp

Locus ID: 254531

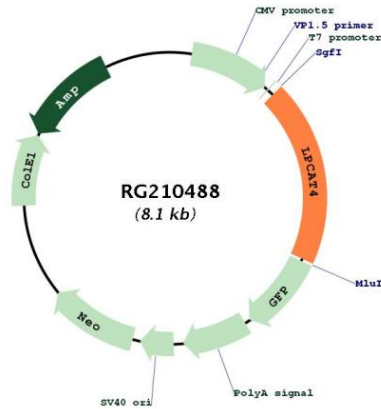
UniProt ID: [Q643R3](#)

Cytogenetics: 15q14

Protein Families: Transmembrane

Gene Summary: Members of the 1-acylglycerol-3-phosphate O-acyltransferase (EC 2.3.1.51) family, such as AGPAT7, catalyze the conversion of lysophosphatidic acid (LPA) to phosphatidic acid (PA), a precursor in the biosynthesis of all glycerolipids. Both LPA and PA are involved in signal transduction (Ye et al., 2005 [PubMed 16243729]).[supplied by OMIM, May 2008]

Product images:



Circular map for RG210488