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Product datasheet for SC100856

AGPAT7 (LPCAT4) (NM_153613) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AGPAT7 (LPCAT4) (NM_153613) Human Untagged Clone
Tag:	Tag Free
Symbol:	AGPAT7
Synonyms:	AGPAT7; AYTL3; LPAAT-eta; LPEAT2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_153613, the custom clone sequence may differ by one or more nucleotides

ATGAGCCAGGGAAGTCCGGGGGACTGGGCCCCCCTAGATCCCACCCCCGGACCCCCAGCATCCCCCAACC
CCTTCGTGCATGAGTTACATCTCTCTCGCCTCCAGAGGGTTAAGTTCTGCCTCCTGGGGGCATTGCTGGC
CCCCATCCGAGTGCTTCTGGCCTTTATCGTCCTCTTTCTCCTCTGGCCCTTTGCCTGGCTTCAAGTGGCC
GGTCTTAGTGAGGAGCAGCTTCAGGAGCCAATTACAGGATGGAGGAAGACTGTGTGCCACAACGGGGTGC
TAGGCCTGAGCCGCCTGCTGTTTTTCCTGCTGGGCTTCCTCCGGATTCGCGTTCGTGGCCAGCGAGCCTC
TCGCCTTCAAGCCCCTGTCCTTGTTGCTGCCCCACACTCCACTTTCTTTGACCCCATTGTTCTGCTGCCC
TGTGACCTGCCCAAAGTTGTGTCCCGAGCTGAGAACCTTTCCGTTCCTGTCATTGGAGCCCTTCTTCGAT
TCAACCAAGCCATCCTGGTATCCCGGCATGACCCGGCTTCTCGACGCAGAGTGGTGGAGGAGGTCCGAAG
GCGGGCCACCTCAGGAGGCAAGTGGCCGCAGGTGCTATTCTTTCCTGAGGGCACCTGTTCCAACAAGAAG
GCTTTGCTTAAGTTCAAACCAGGAGCCTTCATCGCAGGGGTGCCTGTGCAGCCTGTCCTCATCCGCTACC
CCAACAGTCTGGACACCACCAGCTGGGCATGGAGGGGTCCTGGAGTACTCAAAGTCCTCTGGCTCACAGC
CTCTCAGCCCTGCAGCATTGTGGATGTGGAGTTCCTTCCTGTGTATCACCCCAGCCCTGAGGAGAGCAGG
GACCCCACCCTCTATGCCAACAATGTTCAGAGGGTCATGGCACAGGCTCTGGGCATTCCAGCCACCGAAT
GTGAGTTTGTAGGGAGCTTACCTGTGATTGTGGTGGGCCGGCTGAAGGTGGCGTTGGAACCACAGCTCTG
GGAACTGGGAAAAGTGCTTCGGAAGGCTGGGCTGTCCGCTGGCTATGTGGACGCTGGGGCAGAGCCAGGC
CGGAGTCGAATGATCAGCCAGGAAGAGTTTGCCAGGCAGCTACAGCTCTCTGATCCTCAGACGGTGGCTG
GTGCCTTTGGCTACTTCCAGCAGGATACCAAGGGTTTGGTGGACTTCCGAGATGTGGCCCTTGCACTAGC
AGCTCTGGATGGGGGCAGGAGCCTGGAAGAGCTAACTCGTCTGGCCTTTGAGCTCTTTGCTGAAGAGCAA
GCAGAGGGTCCCAACCGCCTGCTGTACAAAGACGGCTTCAGCACCATCCTGCACCTGCTGCTGGGTTCAC
CCCACCCTGCTGCCACAGCTTTGCATGCTGAGCTGTGCCAGGCAGGATCCAGCCAAGGCCTCTCCCTCTG
TCAGTTCCAGAACTTCTCCCTCCATGACCCACTCTATGGGAAACTCTTCAGCACCTACCTGCGCCCCCCA
CACACCTCTCGAGGCACCTCCCAGACACCAAATGCCTCATCCCCAGGCAACCCCACTGCTCTGGCCAATG
GGACTGTGCAAGCACCCAAGCAGAAGGGAGACTGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_153613 unedited
GGGTTCAAAATTGTATACGACTCACTATAGGCGGCCGCGGGGGCCAGGGCCGGGGTGCCC
TCCCTCCCACTTCTCCCGCCTGAGCCAGGAAGTCCGGGGGACTGGGCCCCCCTAGATCCC
ACCCCCGGACCCCCAGCATCCCCCAACCCCTTCGTGCATGAGTTACATCTCTCTCGCCTC
CAGAGGGTTAAGTTCTGCCTCCTGGGGGCATTGCTGGCCCCCATCCGAGTGCTTCTGGCC
TTTATCGTCCTCTTTCTCCTCTGGCCCTTTGCCTGGCTTCAAGTGGCCGGTCTTAGTGAG
GAGCAGCTTCAGGAGCCAATTACAGGATGGAGGAAGACTGTGTGCCACAACGGGGTGCTA
GGCCTGAGCCGCCTGCTGTTTTTCCTGCTGGGCTTCCTCCGGATTCGCGTTCGTGGCCAG
CGAGCCTCTCGCCTTCAAGCCCCTGTCCTTGTTGCTGCCCCACACTCCACTTTCTTTGAC
CCCATTGTTCTGCTGCCCTGTGACCTGCCCAAAGTTGTGTCCCGAGCTGAGAACCTTTCC
GTTCCTGTCATTGGAGCCCTTCTTCGATTCAACCAAGCCATCCTGGTATCCCGGCATGAC
CCGGCTTCTCGACGCAGAGTGGTGGAGGAGGTCCCGAAGCGGGCCACCTCATGAGGCAAG
TGGCCGCAGGTGCTATTCTTTCCTGAGGGCACCTGTTCCAACAAGAAGGCTNNTGCTAAG
NTCAAACCACGAGCCTTCATCGCAGGGGTGCCTGTGCAGCCTGTCCTCATCCGCTACCCC
ACAGTCTTNACACCACCAGCTGGGCATGGGAGGGTCCTGGAGTACTCAAAGTCCTCTGGC
TCACAGCCTCTCACCCTGCAGCATGTGGATGTGGAGTTCCCTCCTGTGTATCACCCCACC
CCTGAGGAAGCAGGGACCCCACCTCTATGCCACCAT

3' Read Nucleotide Sequence:

>Forward primer walk for NM_153613 unedited
GGCTTCTCCTACTCCACCATNCTTGGGNAAACTCTTCAGCACCTACCTGCGCCCCCCAAC
ACCTCTCGAGGCACCTCCCANACACCAAATGCCTCATCCCCAGGCAACCCCACTGCTCTG
GCCAATGGGACTGTGCAAGCACCCAAGCAGAAGGGAGACTGAGTGCCTCAGCCTCTCACC
CCCTCCTCCTCAGGGCAGCGCTAGGGGCCTCCCCTATGCCTCAGCCCCATCTCTGCTCCT
GTTTGAATTTTGTTATTGTTGTTTGGTTGTTGTTTTTTTAAGTTGATTTTAATTTTTTGT
TTGGTTGATTTTTTTGTAAAAAACTATTTTATATATAAATATAAATCTATATCTATATCT
ATTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAACCCTCGCCTTTAATTTGGGCCCGGGGCAAAAGTTTTTCCCG
GAAAAATTCCGGGGGGGATCCCTGGGACCCCCCCCCCAAGGGCCTTTCCGGGCCTGGAAAT
TTGCCCCCCAAGGGCCCCCCACCCTGGCCCAAAAAAAATAAATTGGCACAATTTGGCCGG
ACAAGGGGCCCTTCTAAAAAATTAGGGGGGGAGGGGGGGGGGTATTGAAACAAGGGGGAA
ATTTGGAAAAAAAACCTGTAGGGCCGGCGGGGTCAATTGGAACCCAAGTGGGAGGGCAGG
GGCCAAATCTGGGTTAATTGAATTCTCCGCCCCGGGGTAAAAGCAATTTTCTGGCTTAAC
CTCCCGAATGTTTGGGATTCCGGCTTGGCTGGACAGCCTAAACTAATTTTTGTTTTTGTG
GAAAAACGGGTTTTAACCCTATTGCCAAGCTGGGTCCCAAATTCCTATCTAAGGGGATCC
ACCCCCCTTGCCCCCAAAG

Restriction Sites: NotI-NotI

ACCN: NM_153613

Insert Size: 1900 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_153613.1, NP_705841.1

RefSeq Size: 1908 bp

RefSeq ORF: 1908 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]