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# Product datasheet for SC317887

## AGPAT7 (LPCAT4) (NM_153613) Human Untagged Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | AGPAT7 (LPCAT4) (NM_153613) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | LPCAT4 |
| **Synonyms:** | AGPAT7; AYTL3; LPAAT-eta; LPEAT2 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

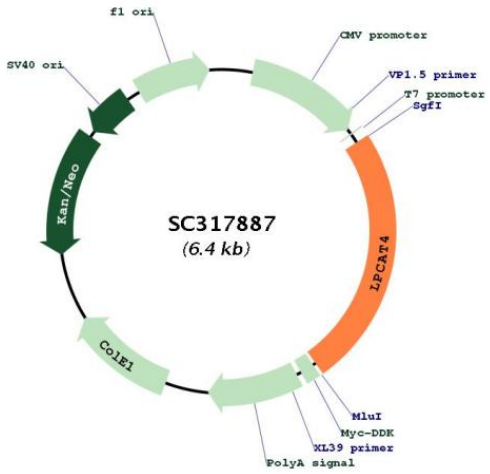
**Fully Sequenced ORF:**

>SC317887 representing NM_153613.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGCCAGGGAAGTCCGGGGGACTGGGCCCCCCTAGATCCCACCCCCGGACCCCCAGCATCCCCCAAC
CCCTTCGTGCATGAGTTACATCTCTCTCGCCTCCAGAGGGTTAAGTTCTGCCTCCTGGGGGCATTGCTG
GCCCCCATCCGAGTGCTTCTGGCCTTTATCGTCCTCTTTCTCCTCTGGCCCTTTGCCTGGCTTCAAGTG
GCCGGTCTTAGTGAGGAGCAGCTTCAGGAGCCAATTACAGGATGGAGGAAGACTGTGTGCCACAACGGG
GTGCTAGGCCTGAGCCGCCTGCTGTTTTTCCTGCTGGGCTTCCTCCGGATTCGCGTTCGTGGCCAGCGA
GCCTCTCGCCTTCAAGCCCCTGTCCTTGTTGCTGCCCCACACTCCACTTTCTTTGACCCCATTGTTCTG
CTGCCCTGTGACCTGCCCAAAGTTGTGTCCCGAGCTGAGAACCTTTCCGTTCCTGTCATTGGAGCCCTT
CTTCGATTCAACCAAGCCATCCTGGTATCCCGGCATGACCCGGCTTCTCGACGCAGAGTGGTGGAGGAG
GTCCGAAGGCGGGCCACCTCAGGAGGCAAGTGGCCGCAGGTGCTATTCTTTCCTGAGGGCACCTGTTCC
AACAAGAAGGCTTTGCTTAAGTTCAAACCAGGAGCCTTCATCGCAGGGGTGCCTGTGCAGCCTGTCCTC
ATCCGCTACCCCAACAGTCTGGACACCACCAGCTGGGCATGGAGGGGTCCTGGAGTACTCAAAGTCCTC
TGGCTCACAGCCTCTCAGCCCTGCAGCATTGTGGATGTGGAGTTCCTTCCTGTGTATCACCCCAGCCCT
GAGGAGAGCAGGGACCCCACCCTCTATGCCAACAATGTTCAGAGGGTCATGGCACAGGCTCTGGGCATT
CCAGCCACCGAATGTGAGTTTGTAGGGAGCTTACCTGTGATTGTGGTGGGCCGGCTGAAGGTGGCGTTG
GAACCACAGCTCTGGGAACTGGGAAAAGTGCTTCGGAAGGCTGGGCTGTCCGCTGGCTATGTGGACGCT
GGGGCAGAGCCAGGCCGGAGTCGAATGATCAGCCAGGAAGAGTTTGCCAGGCAGCTACAGCTCTCTGAT
CCTCAGACGGTGGCTGGTGCCTTTGGCTACTTCCAGCAGGATACCAAGGGTTTGGTGGACTTCCGAGAT
GTGGCCCTTGCACTAGCAGCTCTGGATGGGGGCAGGAGCCTGGAAGAGCTAACTCGTCTGGCCTTTGAG
CTCTTTGCTGAAGAGCAAGCAGAGGGTCCCAACCGCCTGCTGTACAAAGACGGCTTCAGCACCATCCTG
CACCTGCTGCTGGGTTCACCCCACCCTGCTGCCACAGCTTTGCATGCTGAGCTGTGCCAGGCAGGATCC
AGCCAAGGCCTCTCCCTCTGTCAGTTCCAGAACTTCTCCCTCCATGACCCACTCTATGGGAAACTCTTC
AGCACCTACCTGCGCCCCCCACACACCTCTCGAGGCACCTCCCAGACACCAAATGCCTCATCCCCAGGC
AACCCCACTGCTCTGGCCAATGGGACTGTGCAAGCACCCAAGCAGAAGGGAGACTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

**Restriction Sites:** SgfI-MluI

**Plasmid Map:**




**ACCN:** NM_153613

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| **Insert Size:** | 1575 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). |
| **OTI Annotation:** | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA. |
| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_153613.2 |
| **RefSeq Size:** | 1908 bp |
| **RefSeq ORF:** | 1575 bp |
| **Locus ID:** | 254531 |
| **UniProt ID:** | Q643R3 |
| **Cytogenetics:** | 15q14 |
| **Protein Families:** | Transmembrane |
| **MW:** | 57.2 kDa |
| **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] |