

## Product datasheet for **SC116101**

### AGPAT1 (NM\_006411) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | AGPAT1 (NM_006411) Human Untagged Clone   |
| Tag:                      | Tag Free  |
| Symbol:                   | AGPAT1  |
| Synonyms:                 | 1-AGPAT1; G15; LPAAT-alpha; LPAATA  |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u>pCMV6-XL4</u>  |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| Fully Sequenced ORF:      | >NCBI ORF sequence for NM_006411, the custom clone sequence may differ by one or more nucleotides |

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ATGGATTTGTGGCCAGGGGCATGGATGCTGCTGCTGCTGCTCTTCCTGCTGCTGCTCTTCCTGCTGCCCA
CCCTGTGGTTCTGCAGCCCCAGTGCCAAGTACTTCTTCAAGATGGCCTTCTACAATGGCTGGATCCTCTT
CCTGGCTGTGCTCGCCATCCCTGTGTGTGCCGTGCGAGGACGCAACGTCGAGAACATGAAGATCTTGCGT
CTAATGCTGCTCCACATCAAATACCTGTACGGGATCCGAGTGGAGGTGCGAGGGGCTCACCATTCCCTC
CCTCGCAGCCCTATGTTGTTGTCTCCAACCACCAGAGCTCTCTCGATCTGCTTGGGATGATGGAGGTA
GCCAGGCCGCTGTGTGCCATTGCCAAGCGCGAGCTACTGTGGGCTGGCTCTGCCGGGCTGGCCTGCTGG
CTGGCAGGAGTCATCTTCATCGACCGGAAGCGCACGGGGATGCCATCAGTGTCTGTCTGAGGTCGCCC
AGACCCTGCTCACCCAGGACGTGAGGGTCTGGGTGTTTCTGAGGGAACGAGAAACCACAATGGCTCCAT
GCTGCCCTTCAAACGTGGCGCCTTCCATCTTGCAAGAGGAGCGTTCACCTCGGGACAATGTCAGGTGCGGGT
TCCTCCTACCAAGACTTCTACTGCAAGAAGGAGCGTTCACCTCGGGACAATGTCAGGTGCGGGTGC
TGCCCCCAGTGCCACGGAAGGGCTGACACCAGATGACGTCCCAGCTCTGGCTGACAGAGTCCGGCACTC
CATGCTCACTGTTTTCCGGGAAATCTCCACTGATGGCCGGGGTGGTGGTACTATCTGAAGAAGCCTGGG
GGCGGTGGGTGA
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|                                     |   |
|-------------------------------------|---|
| <b>5' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 5' read for NM_006411 unedited</p> <pre> GGAATATGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGAGAGAGACAG AAGGGAGGGAGGGAGGGTGTGGGGGACAGCCCCCACCATTCTACCCTATGGGCC AACCTCCCCTCCACCTCCCCTCCATCGGCCGGGCTAGGACACCCCAATCCCGTGC CCCCCTTGGCACCACACCCGACAGAGACAGACAGCCATCCGCCACCACCCTGC CGCAGCCTGGCTGGGGAGGGGCCAGCCCCCAGCCCCCTACCCCTCTGAGGTGGCCAG AATGGATTTGTGCCAGGGGCATGGATGCTGCTGCTGCTCTTCTGCTGCTGCTCTT CCTGCTGCCACCTGTGGTTCTGCAGCCCCAGTGCCAAGTACTTCTTCAAGATGGCCTT CTACAATGGCTGGATCCTCTTCCCTGGCTGTGCTCGCCATCCCTGTGTGTGCCGTGCGAGG ACGCAACGTGAGAACATGAAGATCTTGCCTAATGCTGCTCCACATCAAATACCTGTA CGGGATCCGAGTGGAGGTGCGAGGGGCTCACCCTTCCCTCCCTCGCAGCCCTATGTTGT TGTCTCCAACCACAGAGCTCTCTCGATCTGCTTGGGATGATGGAGAACTGCCAGGCCG CTGTGTGCCATTGGCAAGCGCAGCTACTGTGGGCTTGTCTGCCGGGCTGGCCTGCCT GCCTGGCAAGAGTCAATCTCATCGACCCGAGCGCACGGGGATGCCATCAGGGTCATGT CTGGGTGGTCTCCTGAGGGAACCAGAAACCACAATGGCTTCATGTGCCCTTTCAACGTC GGCCCTTCATCTTGAATGCAGGCCAGNTTCCATGGACCCAAAAAAGGGCCTCTAC AAGAATCCCTGCAGAAGGAGGGGTTTACCCGGAAAGGCAGGACCGCAGTGCCCC AAGCCACCGGAGGCTCN </pre> |
| <b>3' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 3' read for NM_006411 unedited</p> <pre> GTTACTTCTTTTATTTTATTTTTTGTGTTATCCAGNAAATTAATAAAAACCAACCAG CAAACTGGGTCCACCCTCTCCTTTTGTCCCAGCCTACCTCCCAGTTGTGGGAACAG GTCTGGAGTGAGAGGCAGGGAGTGGCTAATGCCACCAGGAAGAAATGAAAAGTGGCTCAG AGAGGGGAAGCCTCAACAGAAAAGAAATAAATTAAGCCCTCCTATCCCCTCCAGCC AGGGTTCCTTCTTCCCAACTCCCCAGGGGGCAGAAGTGAGTGCAGCACCTGATGTCT GCTTCTCCCCTTGTGTCTGGTGCAGTGGTGCAGCAGGGCTGCAGGGGGCTGGTGGGGT CATGTCCACTGAAGAAGTACTATGGGGACAGAAAACAGAAATGTGGAGACTGAACTG GTATCCCAGAGAGTGCACGACCTGGGCATCTGGGCAAGGGCAGGCATGAGACCTCTGAA TTAGAAGGTCCAGCCCCACTGACAGGAGGCTACACTGGGAGGGAAAGGTGAAGTGTCTG AGAAAGTCTCCAGGATGAGCCTGGGAGTGTTCAGGTATCAGCTTCCAGCCAGAGGGCC TTTGTCCAAAGAATGGATGAGTCCACTGGCCAATGTGGGGTANAGGGGTAGAGAAGACC CATAGGAAGAGACTCCAAGGGATGGAATGTTCCCTCCCTTGTGTANGCTGAGTCACT GGAGATGAGGGGGAGGCAACTGTCCACAGACAAGACAGTAGGAGGTGGGGTCAAGAGT GGAGACTGCACCCGAGCAGATCCATGGATGGGGCCATTAGGGGCAGGAGTGGCCTTTTT CCCATTCACTTCAGAGTTGAGATCCAAGAGAGAC </pre>   |
| <b>Restriction Sites:</b>           | NotI-NotI   |
| <b>ACCN:</b>                        | NM_006411   |
| <b>Insert Size:</b>                 | 2150 bp   |
| <b>OTI Disclaimer:</b>              | 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).  |
| <b>Components:</b>                  | 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).  |

|                               |   |
|-------------------------------|---|
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>   |
| <b>RefSeq:</b>                | <a href="#">NM_006411.2</a> , <a href="#">NP_006402.1</a>   |
| <b>RefSeq Size:</b>           | 2242 bp   |
| <b>RefSeq ORF:</b>            | 852 bp  |
| <b>Locus ID:</b>              | 10554   |
| <b>UniProt ID:</b>            | <a href="#">Q99943</a>  |
| <b>Cytogenetics:</b>          | 6p21.32   |
| <b>Domains:</b>               | Acyltransferase   |
| <b>Protein Families:</b>      | Transmembrane   |
| <b>Protein Pathways:</b>      | Ether lipid metabolism, Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways   |
| <b>Gene Summary:</b>          | <p>This gene encodes an enzyme that converts lysophosphatidic acid (LPA) into phosphatidic acid (PA). LPA and PA are two phospholipids involved in signal transduction and in lipid biosynthesis in cells. This enzyme localizes to the endoplasmic reticulum. This gene is located in the class III region of the human major histocompatibility complex. Alternative splicing results in two transcript variants encoding the same protein. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.</p> |