

Product datasheet for **MC209809**

Agpat3 (NM_053014) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Agpat3 (NM_053014) Mouse Untagged Clone
Tag: Tag Free
Symbol: Agpat3
Synonyms: AW061257; AW493985; D10Jhu12e; lpaat3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC209809 representing NM_053014
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGCCTGCTTGCCCTACCTGAAGACCCAGTTCGTGGTGCACCTGCTCATTGGCTTCGTCTTCGTGGTGA
GCGGGTTAATTATCAACTTCACCCAGCTGTGCACACTGGCCCTCTGGCCCATCAGCAAGCACCTATACCG
CCGTATCAACTGCCGCTTGGCCTACTCGCTCTGGAGCCAGCTGGTCATGCTCCTGGAGTGGTGGTCTGCG
ACGGAGTGCACCTCTTCCACCGACCAGGCCACCGTGGACCACTTTGGGAAGGAGCATGTGGTTGTTATCC
TCAACCACAACCTCGAGATCGACTTCCTTTGTGGTGGACGATGTGCGAGCGGTTTGGCGTGTGGGGAG
CTCCAAGGTGCTGGCTAAGAGGGAGCTGCTGTGTGTGCCTCTCATCGGCTGGACGTGGTACTTCTAGAG
ATCGTATTCTGCAACCGAAGTGGGAGGAAGACCGGGACACCGTCATAGAGGGCCTGAGGCGCTTAGCTG
ACTACCCAGAGTACATGTGGTTTCTCCTGTACTGCGAAGAACACGCTTACAGAGACCAAGCATCGCAT
CAGCATGGAGGTGGTGCCTCCAAGGGGCTGCCCCACTCAAGTACCACCTGCTGCCCCGACCAAGGGC
TTTACCACGGCAGTCCAGTGCCTCCGGGGACAGTTGCAGTATCTATGACGTGACCCCTGAACCTCAGAG
GGAACAAGAACCATCTCTACTGGGATCCTGTATGGGAAGAAATATGAGGCAGACATGTGTGAGGAG
GTTCCCCCTGGAAGACATCCCAGCAGATGAGACCAGCGCCGCCAGTGGCTTACAAGCTGTACCGAGGAG
AAGGATGCCCTGCAAGAGATGTACAAGCAGAAGGGTGTATTCCCAGGGGAGCAGTTCAAGCCTGCCCGAA
GGCCGTGGACCCTCCTGAACTTCTGTGCTGGCCACCATCCTCCTCTCACCCCTCTTCAGCTTCGTCTCT
GGGTGTCTTTGCCAGTGGATCCCCGCTCCTCATCTGACGTTCTTGGGGTTCGTGGGAGCAGCTTCTTCC
GGAGTCCGGAGACTGATAGGAGTACTGAGATAGAGAAAGGCTCCAGCTATGGCAACCAAGAGCTTAAGA
AAAAGGA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_053014
Insert Size:	1131 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:	<ol style="list-style-type: none">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:	<u>NM_053014.3</u> , <u>NP_443747.2</u>
RefSeq Size:	3439 bp
RefSeq ORF:	1131 bp
Locus ID:	28169
UniProt ID:	<u>Q9D517</u>
Cytogenetics:	10 39.72 cM
Gene Summary:	Converts 1-acyl-sn-glycerol-3-phosphate (lysophosphatidic acid or LPA) into 1,2-diacyl-sn-glycerol-3-phosphate (phosphatidic acid or PA) by incorporating an acyl moiety at the sn-2 position of the glycerol backbone (PubMed:15367102). Acts on LPA containing saturated or unsaturated fatty acids C16:0-C20:4 at the sn-1 position using C18:1, C20:4 or C18:2-CoA as the acyl donor (By similarity). Also acts on lysophosphatidylcholine, lysophosphatidylinositol and lysophosphatidylserine using C18:1 or C20:4-CoA (By similarity). Has a preference for arachidonoyl-CoA as a donor (PubMed:19114731). Has also a modest lysophosphatidylinositol acyltransferase (LPIAT) activity, converts lysophosphatidylinositol (LPI) into phosphatidylinositol (PubMed:19114731).[UniProtKB/Swiss-Prot Function]