

Product datasheet for **MC206576**

Agpat5 (BC031987) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Agpat5 (BC031987) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Agpat5
Synonyms:	1110013A05Rik; D8Ertd319e
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC031987
 GAGAGGATGCTGCTGCCCTGGTGTCCACACGTA CTCTATGCGCTACCTGCTCCCCAGCGTCTGTTCG
 TGGGCTCGGCGCCACCTACCTGCTGGCCTGGACGCTGTGGCGGGTGTCTCCGCGCTGATGCCCGCCG
 CCTGTACCAGCGCGTGGACGACCGGCTTACTGCGTCTACCAGAACATGGTGTCTTCTTCTTCGAGAAC
 TACACCGGGTCCAGATTTGCTATATGGAGATTTGCCAAAAATAAAGAAAATGTAATATATCTAGCGA
 ATCATCAAAGCACAGTTGACTGGATTGTTGCGGACATGCTGGCTGCCAGACAGGATGCCCTAGGACATGT
 GCGCTACGTAAGCAAGTAAAGTAAATGGCTCCGCTGTATGGGTTCTACTTTGCTCAGCATGGAGGA
 ATTTATGTAAAACGAAGTGCCAAATTTAATGATAAAGAAATGAGAAGCAAGCTGCAGAGCTATGTGAACG
 CAGGAACACCAATGTATCTTGTGATTTTCCAGAGGGAACAAGGTATAATGCAACATACACAAAACCTCT
 TTCAGCCAGTCAGGCATTTGCTGCTCAGCGCGCCTTGCAGTATTAACACGTA CTGACACCAAGAATA
 AAGGCCACTCACGTTGCTTTGATTCTATGAAGAGTCATTTAGATGCAATTTATGATGTCACAGTGGTTT
 ATGAAGGGAATGAGAAAGTTCCAGGAAATACTCAATCCACCATCCATGACTGAGTTTCTCTGCAAAACA
 GTGCCAAAACCTCATATTCACCTTGTATAGACAGAAATGAAGTCCAGAGGAACAAGAACACATG
 AAAAGTGGCTTCATGAGCGCTTGTAGATAAAAAGATAGGTTGCTCATAGAGTTCTATGATTCACCAGATC
 CAGAAAGAAGAAACAAATTTCTGGGAAAAGTGTTCATCCAGACTAAGTGTGAAGAAGACTTTACCTTC
 AGTGTGATCTTGGGGAGTTGACTGCTGTCATGCTGATGACGGAGTCCGGAAGGAAACTTACATGGGC
 ACCTGTTGTATGGAACCTCCTTGGCTGCCTGTGGTTTGTATTAAAGCATAAGCAAGTAGCAGGCTGC
 AGTCACAGTCTCTTATTGATGGCTACACGTTGTATCACATTGTTTCTGAATTAATAAGGAGTTTTCTT
 GTTGTGTTTTTTTTGTTTTGTTTTGTTTTGTTCTGTTTTAAGCCTTGATGATTGAACACTGGATAAAGTA
 GAGTTTGTGACCACAGCCAACATGCATTTGATTTGGGGCAACACATGTGGCTTTTCAGGTGCTGGGGTT
 GCTGGAGACATGGAAGCTAAGTGGAGTTATGCTGTTTTTTTTTTTTTAAATGTTTTCATGAATTAATGTC
 CACTTGTAAAGATTATTGGATACTTTCTGTAATTCAGAAGTTGATTTTTAACAATAGTTTGCAGTATGT
 TTCGCTATATTGGTTATCTTCCATTTGACTACTGGCAGCTCAGACTCTTAATACTAAAGTATTTTACAT
 TTTGAAGCTATGTGATACTGGTTTTTTTTGTTGTTGTTGTTAATTTCTGAAAGTCAATGAAAGACTG
 TAATGATGCGTTAAGATGTTCCAAGAAAAGGTGAGAATTATTTCATGGCAAAAAAGATCTGTCTAATGTA
 TATTTTTATTATATTGCTCTATTTAGCTAATTTCTTTATATTTGCAAAAATAATGAACATTTTTAATATT
 AAAATGCTTGATTTGCATACCCCGATTCTACAGAGAATAATGTGTAAAGTGCAGAATAGACTTGAAGC
 TCTGCTGTGACTCAGTCTCCTTTGTGAGAGCTTCTAGTAGCCAGCTACTGAGCTGCTTTGTTAGTACCT
 CCAGCACCTGAGCCGTTAAGTACTTATAAATGCAAGGGACCCGTTATCTTCATATCGGAATAGACATGAA
 CAGAGCTCTAAGGCGATGAAAGTCTGCCAGCATCTCTCTGCTCGCACGTGCCTTCTGCCTGGCTCCA
 TTTGCTTTGGCACTGCGTTCGATCTAGAGTGTAGGTGCTCACTGCTTATTTAGCCCTGGCTCTGTGGTT
 TTGTGTCCTCCAGTGGTGTCTACTGTTGGGGTGCAGGTGGTGTGCTGCCCTGACTCAGAGGGGCAGCTC
 CCTGGCTCCTGAGGGTGAGCCTTCTGGCTACTACAGAAGTATTGTGCATTTGTTTATGGCAAGAACCAT
 CAGGATTGGATAAATGTGTTATTTCTCTTTGATTTCCATGGAGCCACACTGTTGGTACATGTCCCCTGTG
 AACAGAGCTACCTTTCCAGGAGCACATCATACTGTCGTGAGTACGGCACGGTGTGTCCTGTGAGAAGAGG
 CTTTCTAACGTGTGATTTGCCGTGTTCTATGTTGTGATTTAAGCGTGATTGCCTACTAGTCATTCAAGG
 TAACATTTCTGCAAAATTCATACAGATTTTTGTACAAAATTAATAACCAATGATCTAGTTGAAATAG
 ACCAATTTGAATCACATAAATAATTTTTTTAATTGAGGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AA

- Restriction Sites:** EcoRI-NotI
- ACCN:** BC031987
- Insert Size:** 1098 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>BC031987</u> , <u>AAH31987</u>
RefSeq Size:	2628 bp
RefSeq ORF:	1098 bp
Locus ID:	52123
Cytogenetics:	8 10.3 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 C15:0-C20:4 at the sn-1 position using C18:1-CoA as the acyl donor (By similarity). Also acts on lysophosphatidylethanolamine using oleoyl-CoA, but not arachidonoyl-CoA, and lysophosphatidylinositol using arachidonoyl-CoA, but not oleoyl-CoA (By similarity). Activity toward lysophosphatidylglycerol not detectable (By similarity). [UniProtKB/Swiss-Prot Function]