

Product datasheet for **MC204015**

Gpat4 (NM_018743) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpat4 (NM_018743) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gpat4
Synonyms:	Agpat6; AU041707; AW545732; Tsarg7
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC031767
 CAGCCACATAGCTGAACAGAAAGCTGCCCTTGCCGCTCGCTTGCCCGGACACTCAGGACTCAGGTGCTG
 TTCCAGCCTACTCACCACAGATTGTCATCTGTGCCGGGAGACCTGGCATTCTGGGGTGCCTGTGAC
 CCTTCTGCAGTTCTGCGCCAGAGCTCTATTAGGCAGTTGGATGACATGAACTTTGAGATGGAGTTTGC
 ACCCGTGAGGGACTGGCTGCCTTTCCAAGGCTTGTGCTATCTGAAGGGACCATCTGAAGGACGTGTTGT
 GTGTGAAAAAGAGGGCACCAGCCTGACGTGCGTCCCTCCACCATGTTCTGTTGCTACCTTTTGATAGCTT
 GATTGTCAACCTCCTGGGTATCTCCCTGACCGTCCCTTCCACCTGCTGCTTGTGTTTCATCATCGTCCCT
 GCCATCTTTGGAGTGTCTTTGGTATCCGAAAGCTCTACATGAAAACACTGCTAAAGATCTTTGCGTGGG
 CCACCCTGAGAATGGAGAGAGGAGCCAAGGAGAGGAACCACCAGCTGTACAAGCCCTACACCAACCGAAT
 CATTGCAAAAGATCCCCTTCTCTGGAAGAAGAAATCAAAGAAATTCGTGAAAGTGGTAGTAAAGCT
 CTGGATAAGACACCCGAGTTGAGCTCTCTGACATCTTCTACTTTTGCCGAAAGGAATGGAGACTATCA
 TGGATGATGAAGTGACAAAGAGATTCTCGGCAGAGGAGCTGGAGTCTGGAACCTGCTGAGCAGAACCAA
 TTACAACCTCCAATACATAAGCCTGCGGCTTACCATCCTCTGGGGCTTAGGAGTGTGATTGCGTATTGC
 TTCTCTGCCACTCAGGATTGCGTGGCATTACGCGGATTGGCCTCTTGGTAGTGGAACTACTATGG
 TTGGATACCTGCCAAATGGGAGATTTAAGGAGTTTTTGTAGTAAACACGTTCACTTAATGTGTACCGTAT
 CTGTGTGCGAGCCCTGACGGCCATCATTACGTACCACAACAGGAAAAACAGACCAAGAAATGGTGGCATT
 TGTGTGGCTAACCATACATCCCCCATTGATGTGATCATCTTGCCAGCGACGGCTACTACGCCATGGTGG
 GACAGGTTACGGGGGCTTATGGGTGTGATTGAGAGCAATGGTGAAGCCTGCCCCATGTCTGGTT
 TGAGCGTCTGAGGTGAAAGATCGCCACCTGGTGGCTAAGAGGCTGACTGAGCATGTCCAGGATAAAGC
 AAGCTGCCCATCCTCATCTTCCAGAAGGAACCTGCATCAATAACACATCAGTGTGATGTTCAAGAAGG
 GAAGCTTTGAAATGGAGCCACTGTTTACCCTGTGGCTATCAAGTATGACCCTCAGTTTGGTGACGCTT
 CTGGAACAGCAGCAAGTATGGCATGGTACGTAACCTTCTGAGGATGATGACCAGTTGGGCCATTGTCTGC
 AGCGTTTTGGTACCTGCCTCTATGACTCGAGAGAAGATGAAGTGTGTCAGTTTGTAAACAGAGTGA
 AGTCTGCCATTGCCCGGCAGGGAGGATTGGTAGACCTGCTGTGGGACGGTGGATTGAAGAGAGAAAAGGT
 GAAGGACACATTCAAGGAGGAGCAGCAGAAGCTATATAGCAAGATGATAGTCGGAACCATGAGGACCGC
 AGCCGGTCTGAGCCTCCGTCTTGTGCTGGCTGAAGCCGCCACCTCTAAATCCTGAAGTGTGAGCCAGCT
 GCAGTTGTTGCTGCCACAGCCTTACCCTCATCCCGCCACCCACTGCTGCATCCTTCCGGACTCTGGCC
 CTCAGGCTGTTCTGGACTCCAGGACTGGAGCTGCGTCAGAGCTCCGTGGGCTGCCTGCTGCTCCTTAACC
 AGAATGCTTCTGGCTGGGCTCCCTGGGACAAAATGCCTCTTGTCTTATAGTAAGCCTCTAAGAGGAAT
 GCCATTAAGCAGTTCTAGCTGGTGAAGGTTGGGCCCTGTTCTTGCCCTGAGAGGATGTTAGTGTTC
 TGTAGAAAACAGCCATATGCTGGTAAAGTCGAAAAGACTGCAGAGGCCGGTGCCTAAACAGCCTCCAG
 CTTAGCGCTTGAGATGTGGCAGAAAGACTGTCTGCAGGAGTGTCTCACGCTCCAGCGAGTGGAGTCTT
 AAGTCCCTGTGTTCTGCTTATGAAGATCACCAGAGGAGATAGGAAGAGCCAGTGGGCTCCTGGGAGTT
 AGCTAGCCCAGGCTGAGCCTGAATCCCCACATGACTTGTTAATATGTCTCAGTTTCCCTGTCTGTTT
 CATGGAATTGCGGAGAGAGATGGTGGTGTGCTACCTCACAGGTTGTTGTGGGATTCCAGTGTAGT
 CGTGTGAAGGAAATGTGTGCTGCTCCTCCAGGGACAGCTTCCAGAGCGTGGCAGGACAAGGTGAGAGCT
 ACAGCTGCTGCCAGGATTTTAAATGTTTGTGAGTAAATAAACTGGATGGTAAATGAAAAAAAAAAAA AAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_018743

Insert Size: 1371 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: [BC031767](#), [AAH31767](#)

RefSeq Size: 2526 bp

RefSeq ORF: 1371 bp

Locus ID: 102247

UniProt ID: [Q8K2C8](#)

Cytogenetics: 8 A2

Gene Summary: Converts glycerol-3-phosphate to 1-acyl-sn-glycerol-3-phosphate (lysophosphatidic acid or LPA) by incorporating an acyl moiety at the sn-1 position of the glycerol backbone (PubMed:18238778). Active against both saturated and unsaturated long-chain fatty acyl-CoAs (By similarity).[UniProtKB/Swiss-Prot Function]