

Product datasheet for MC215874

Gpat3 (NM_172715) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpat3 (NM_172715) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gpat3
Synonyms:	1-AGPAT; 1-AGPAT 9; 4933407I02Rik; 4933408F15; A230097K15Rik; GPAT-3; Gpat3; mGPAT3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC215874 representing NM_172715 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGGCGCAGACCTGGCGGTGAAGCTCCTGTCCACCTGGCTGACGCTGGTGGGCGCCTCATCCTTT
TACCCTCGGCCTTCGGATTATCCCTGGGTATCTCGGAGATCTACATGAAGATCCTGGTAAAACCTTGG
GTGGGCCACATTACGAATTCAGAAAGGAGCCCCAAGGAGTCAGCTCTTAAAACTCAGCTTCTGTGGGT
ATTATCCAAAGAGATGAGTCACCCATGGAGAAAGGGCTCTCTGGTCTCGAGGAAGGACTTCGAGCTCT
CTGATGTGTTCTATTTCTCCAAGAAGGGTTGGAAGCCATTGTGGAGGATGAAGTGACCCAGAGGTTCTC
CTCCGAAGAGCTAGTATCATGGAACCTCCTCACACGAACCAATGTCAACTTTCAGTACATCAGTCCAAGG
CTCACCATGGTGTGGGTGCTGGGTGTCCTAGTGCCTATTGCTTCTGCTACCTCTGAGGGTCACCCTGG
CTTTCAATGGGATCAGCTTGCTGATTATAGGAACACTGTTGGCCAGCTTCCAGACAGCAGCCTCAA
AACTGGCTGAGTGAGCTGGTGCATCTGACCTGCTGCAGGATCTGTGTTCCGGTCCCTATCTGGCACCATC
CATTACCATAACAAGCAGTACAGACCCAGAAGGGAGGTATCTGTGTCGCAATCACACCTCTCCCATTTG
ATGTCCTAATCCTGGCCACCGATGGATGTTACGCCATGGTTGGCAGGTTACGGTGGATTGATGGGGAT
CATTAGAGAGCCATGGTTAAGGCTTGTCTCAGCTCTGTTTGGAGCGCTCAGAAATAAAGGACAGACAT
CTAGTGACTAAGAGATTAAGAAGACACATTGCTGACAAGAAAAAGTTACCCATTCTAATCTTCCCAGAAG
GTACTTGATCAACAATACTTCAGTATGATGTTTAAAAAGGGAAGCTTTGAAATCGGAGGAACCATCTA
TCCAGTGGCCATAAAGTATAACCCCGAGTTCGGCGATGCCTTCTGGAACAGTAGTAAATACAACCTTGGT
AGCTACCTGCTTCAATCATGACCAGCTGGCCATTGTCTGCGACGTGTGGTACATGCCTCCCATGACTA
GAGAGGAAGGAGAAGACGCAGTTTCAAGTTCGAAACAGGGTAAAAATCCGCTATCGCTGTACAAGGAGGCT
GACGGAACCTCCCTGGGATGGAGGGCTGAAGAGAGCAAAGGTGAAGGACACCTTCAAGGAAGAACAACAG
AAGAATTACAGCAAGATGATCGTGGCAACGGATCTCCAACCTGGCAGGGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_172715
Insert Size:	1317 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_172715.3</u> , <u>NP_766303.1</u>
RefSeq Size:	2877 bp
RefSeq ORF:	1317 bp
Locus ID:	231510
UniProt ID:	<u>Q8C0N2</u>
Cytogenetics:	5 E4
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:17170135). Also converts 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 (By similarity).[UniProtKB/Swiss-Prot Function]