

Product datasheet for **SC319949**

GPAT4 (NM_178819) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPAT4 (NM_178819) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPAT4
Synonyms:	1-AGPAT 6; AGPAT6; LPAAT-zeta; LPAATZ; TSARG7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_178819.2
 GTTTGCTGTTCTTCGGAACCTTGCTTCCTTCCCTGGCTGGTGTGTCAGGAAGGACCAT
 CTGAAGGCTGCAATTTGTTCTTAGGGAGGCAGGTGCTGGCCTGGCTGGATCTTCCACCA
 TGTTCTGTTGCTGCCTTTTGATAGCCTGATTGTCAACCTTCTGGGCATCTCCCTGACTG
 TCCTCTTACCCTCCTTCTCGTTTTTCATCATAGTGCCAGCCATTTTGGAGTCTCCTTTG
 GTATCCGCAAACCTCTACATGAAAAGTCTGTTAAAAATCTTTGCGTGGGCTACCTTGAGAA
 TGGAGCGAGGCAAGGAGAAGAACCACCAGCTTTACAAGCCCTACACCAACGGAATCA
 TTGCAAAGGATCCCACTTCACTAGAAGAAGAGATCAAAGAGATTGTCGAAGTGGTAGTA
 GTAAGGCTCTGGACAACACTCCAGAGTTCGAGCTCTGACATTTTCTACTTTTGCCGGA
 AAGGAATGGAGACCATTATGGATGATGAGGTGACAAAAGAGATTCTCAGCAGAAGAAGTGG
 AGTCTGGAACCTGCTGAGCAGAACCAATTATAACTTCCAGTACATCAGCCTTCGGCTCA
 CGGTCTGTGGGGTTAGGAGTGTGATTCGGTACTGCTTTCTGCTGCCGCTCAGGATAG
 CACTGGCTTTCACAGGGATTAGCCTTCTGGTGGTGGGCACAACCTGTGGTGGGATACTTGC
 CAAATGGGAGGTTAAGGAGTTCATGAGTAAACATGTTCACTTAATGTGTTACCGGATCT
 GCGTGCAGCGCTGACAGCCATCATCACCTACCATGACAGGGAAAACAGACCAAGAAATG
 GTGGCATCTGTGTGGCCAATCATACCTCACCGATCGATGTGATCATCTTGCCAGCGATG
 GCTATTATGCCATGGTGGTCAAGTGCACGGGGACTCATGGGTGTGATTCAGAGAGCCA
 TGGTGAAGGCTGCCACACGTCTGGTTTGAGCGCTCGGAAGTGAAGGATCGCCACCTGG
 TGGCTAAGAGACTGACTGAACATGTGCAAGATAAAAGCAAGCTGCCTATCCTCATCTTCC
 CAGAAGGAACCTGCATCAATAATACATCGGTGATGATGTTCAAAAAGGGAAGTTTTGAAA
 TTGGAGCCACAGTTTACCCTGTTGCTATCAAGTATGACCCTCAATTTGGCGATGCCTTCT
 GGAACAGCAGCAATAACGGGATGGTACGTACCTGCTGCGAATGATGACCAGCTGGGCCA
 TTGTCTGCAGCGTGTGGTACCTGCCATCCCATGACTAGAGAGCGAGTGAAGATGCTGTCT
 AGTTTGGCAATAGGGTGAATCTGCCATTGCCAGGCAGGGAGGACTTGTGGACCTGCTGT
 GGGATGGGGCCTGAAGAGGGAGAAGGTGAAGGACACGTTCAAGGAGGAGCAGCAGAAGC
 TGTACAGCAAGATGATCGTGGGGAACCAAGGACAGGAGCCGCTCCTGAGCCTGCCTCC
 AGCTGGCTGGGGCCACCGTGGGGGTGCCAACGGGCTCAGAGCTGGAGTTGCCGCCGCCG
 CCCCCACTGCTGTCTCTTCCAGACTCCAGGGCTCCCCGGGCTGCTCTGGATCCCAGGA
 CTCCGGCTTTCGCCGAGCCGACGCGGGATCCCTGTGCACCCGGCGCAGCCTACCTTGGT
 GGTCTAAACGGATGCTGTGGGTGTTGCGACCCAGGACGAGATGCCTTGTCTTTTACA
 ATAAGTCTTGGAGGAATGCCATTAAGTGAACCTCCACCTTTGCACGCTGTGCGGGCT
 GAGTGGTTGGGGAGATGTGGCCATGGTCTTGTGCTAGAGATGGCGGTACAAGAGTCTGTT
 ATGCAAGCCCGTGTGCCAGGGATGTGCTGGGGCGGCCACCCGCTCTCCAGGAAAGGCAC
 AGCTGAGGCACTGTGGCTGGCTTCGGCCTCAACATCGCCCCAGCCTTGGAGCTCTGCAG
 ACATGATAGGAAGGAACTGTCTCTGCAGGGGCTTTCAGCAAAATGAAGGGTTAGATTT
 TTATGCTGCTGCTGATGGGGTACTAAAGGGAGGGGAAGAGGCCAGGTGGGCCGCTGACT
 GGGCCATGGGGAGAACGTGTGTTCTGACTCCAGGCTAACCTGAACTCCCCATGTGATGC
 GCGCTTTGTTGAATGTGTCTCGGTTTCCCCATCTGTAATATGAGTGGGGGGAATGGT
 GGTGATTCCTACCTCACAGGGCTTTGTGGGATTAAGTGTGCTGCGGGTGTGAGTGAAGGAC
 ACATCACGTTTCAAGTACAGGCCACAAAACGGGGCACGGCAGGCCTGAGCTC
 AGAGCTGCTGCACTGGGCTTTGGATTTGTTCTTGTGAGTAAATAAACTGGCTGGTGAAT
 GAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_178819

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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	NM_178819.2 , NP_848934.1
RefSeq Size:	2592 bp
RefSeq ORF:	1371 bp
Locus ID:	137964
UniProt ID:	Q86UL3
Cytogenetics:	8p11.21
Protein Families:	Transmembrane
Protein Pathways:	Ether lipid metabolism, Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways
Gene Summary:	Lysophosphatidic acid acyltransferases (EC 2.3.1.51) catalyze the conversion of lysophosphatidic acid (LPA) to phosphatidic acid (PA). LPA and PA are involved in signal transduction and lipid biosynthesis.[supplied by OMIM, Apr 2004]