

Product datasheet for **SC124729**

GPAT 2 (GPAT2) (NM_207328) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPAT 2 (GPAT2) (NM_207328) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPAT 2
Synonyms:	CT123
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC124729 sequence for NM_207328 edited (data generated by NextGen Sequencing)

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ATGGCCACCATGTTGGAAGGCAGATGCCAACTCAGCCAAGGAGCAGCCCCAGTGGCCGA
GAGGCTAGCCTGTGGTCGTCAGGCTTTGGGATGAAGCTGGAGGCTGTCACTCCATTCTG
GGGAAGTATCGCCCTTTGTGGGTCGCTGTTGCCAGACCTGCACCCCAAGAGCTGGGAG
TCCCTCTTCCACAGAAGCATAACGGACCTAGGCTTCTGCAATGTGATCCTGGTGAAGGAG
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GAGCAGCACATCCCCCTGCCAGGATGTCCACAGAAGATCATGGAAAGCACCGGGGTG
CAGAACCTCCTCTCAGGGAGGGTCCCAGGAGGCACTGGGGAAGGCCAGGTGCCTGACCTT
GTGAAGAAGGAGGTACAGCGCATCCTGGGTACATCCAGGCCCAACCCCTCCCTTCTG
GTCAGGCTGTTACAGTGGGCGCTGCTGAGGTTCTGAACTGCCTGTTCTGAATGTGCAG
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CTCCTCTCTACTCACAAAACCTCCTGGATGGGATCCTGCTGCCCTTTATGCTGCTCTCC
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CAACTGAGTGCTGAGCTGCTGCCGTCTTCTGAGCGAGGCTGTGGGCGCCTGTGCAGTG
CGGGGGCTGCTGGCAGGCAGAGTGCCGCCAGGGGCCCTGGGAGCTGCAGGGCATATTG
CTGCTGAGCCAGAATGAGCTGTACCGCCAGATCCTGCTGCTGATGCACCTGCTGCCGCA
GACCTGCTGCTGTAAAGCCCTGCCAGTCTTCTACTGCTACTGTGAGGAGGTGTGGAC
CGGCTCATCCAATGCGGGCTCCTGGTTGCTGAGGAGACCCAGGCTCCCGGCCAGCCTGT
GACACAGGGGCAGAGCGATTGAGCAGAAAGCTGCTGTGGAACCGAGTGGGGACTTTACT
GATAGTGACAGTGATGACTTCGGAGAGGCTGACGGCCGGTACTTCAGGCTCAGCCAGCAG
TCACACTGCCAGATTTCTTTCTTTCTCTGCCGCTGCTCAGCCCGCTGCTCAAGGCC
TTTGCACAGGCTGCCGCTTCTCCGCCAGGGCCAGCTGCCGATACTGAGTTGGGCTAC
ACAGAGCAGCTGTTCCAGTTCCTGCAGGCCACCGCCAGGAAGAAGGGATCTTCAGTGT
GCGGACCCAAAGCTCGCCATCAGTGTCTGGACCTTCAGAGACCTAGGGGTTCTGCAG
CAGACGCCAGCCCTGCAGGCCAGGCTCCACCTGTCCCTACTTTTGCAGCCTGGAC
AATCAGGAAAACTAGAACAGTTCATCCGCAGTTCATTTGTAGCTAG

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Clone variation with respect to NM_207328.2
587 g=>n;588 c=>n

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_207328 unedited <pre> CTATAGGGGCGGCCGCGAATTCGCACGAGGTCCACGCCTTGTGGCGGCTTTGCGGAGCTG CTGCTTTTGGCGGGAGTTGGAAGCTGGTGTGAGGTGAGAGGCGCGGTGGTCGCTCCCCGGC GAGGCCAGGTTTCTGTGGGGAGAAGGAGAGTGCCAGAGGTGACTGGTTCATGGTTCTTCT AGGCTCTCATGGCCACCATGTTGGAAGGCAGATGCCAACTCAGCCAAGGAGCAGCCCCA GTGGCCGAGAGGCTAGCCTGTGGTCGTCAGGCTTTGGGATGAAGCTGGAGGCTGTCACTC CATTCTGGGGAAGTATCGCCCCCTTTGTGGGTCGCTGTTGCCAGACCTGCACCCCAAGA GCTGGGAGTCCCTCTTCCACAGAAGCATAACGGACCTAGGCTTCTGCAATGTGATCCTGG TGAAGGAGGAGAACAAGGTTTCGGGGCTGGCTGGTTCGGAGGCTCTGTATTTCTGT GGTCCCTGGAGCAGCACATCCCCCCTGCAGGATGTCCACAGAAGATCATGGAAGCACC GGGTGCAGAACCTCCTTAAGGGAGGGTCCAGAGACTGGGGGAGGCCAGTGCCTGACCT GTGNAAGGAGGACAGCGCATCTGGGTACATCCAGGCCACCCGTCCTTCTGGTNA AGGCTGTCNCTTGGCCTTGTGAAGGGTCTGAACTGCCTNGTCTGGATGTGCACTCA CAAGGTCAATAAAAAATGTCCCAAAGGCCGAGNCAGTAGCCGCTCTTTGGTGTGGGG GGGGGGGGGGGGGAAAAAAGGAGGGGGCCAAACCCTTAATAAGGAAAGTCCCC ATTGGCCTGGTTCTGGCCTCTTTGTTCACTAAACAAAAACCATC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_207328
Insert Size:	3500 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:	<u>NM_207328.1, NP_997211.1</u>
RefSeq Size:	2847 bp
RefSeq ORF:	2556 bp
Locus ID:	150763
UniProt ID:	<u>Q6NUI2</u>
Cytogenetics:	2q11.2

Gene Summary:

Esterifies acyl-group from acyl-ACP to the sn-1 position of glycerol-3-phosphate, an essential step in glycerolipid biosynthesis. Required for primary processing step during piRNA biosynthesis. Molecular mechanisms by which it promotes piRNA biosynthesis are unclear and do not involve its acyltransferase activity.[UniProtKB/Swiss-Prot Function]