

Product datasheet for **SC128218**

MAG1 (GPAT3) (NM_032717) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAG1 (GPAT3) (NM_032717) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAG1
Synonyms:	AGPAT8; AGPAT9; AGPAT 10; AGPAT10; HMFN0839; LPAAT-theta; MAG1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC128218 sequence for NM_032717 edited (data generated by NextGen Sequencing)

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ATGGAGGCGCAGAGCTGGCCGGAAGATCCTTCCACCTGGCTGACGCTGGTTCTCGG
TTCATCCTTTTACCTTCGGTCTTCGGAGTGTCTCTGGGCATCTCCGAGATCTACATGAAG
ATCCTAGTGAAAACTTTAGAGTGGGCCACAATACGAATTGAAAAAGGAACCCCAAAGGAG
TCGATTCTTAAAACTCTGCTTCTGTTGGTATTATCCAAAGAGATGAGTCACCCATGGAA
AAAGGGCTCTCTGGTCTACGAGGAAGGGACTTTGAGCTGTCTGACGTGTTTTATTCTCC
AAGAAGGGATTGGAAGCCATTGTAGAAGATGAAGTGACCCAGAGGTTTTCCCTCAGAGGAG
CTAGTGCATGGAATCTCCTCACAAGAACCAATGTAATTTCCAGTACATCAGTCTGCGG
CTCACTATGGTGTGGGTCTGGGCGTCATAGTGCCTATTGTGCTCCTACTGCCTCTGAGG
GTTACCTTGGCTTTCATTGGGATCAGTTTGTGTTATAGGAACACTGCTGGTGGGCAG
CTGCCAGACAGCAGCCTCAAAAAGTGGCTGAGTGAAGTGGTCCATCTGACTTGTGCCGG
ATCTGTGTGCGAGCCCTCTCTGGTACCATTCAATATCATAACAAGCAGTACAGACCCAG
AAGGGAGGCATTTGTGTTGCCAACCATACTTCCCCATTGATGTTTTAATCTTGACAACG
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TTTCTGAAGGAACCTTGCATCAACAATACTTCAGTCATGATGTTTTAAAAAGGGGAGCTTT
GAAATTTGGAGGAACCATACATCCAGTTGCAATTAAGTATAACCCCTCAGTTCGGTGATGCA
TTTTGGAACAGTAGTAAATACAACATGGTGAGCTACCTGCTTTCGAATGATGACCAGCTGG
GCCATCGTCTGTGACGTGTGGTACATGCCCCCATGACCAGAGAGGAAGGAGAAGATGCA
GTCCAGTTTGTAAACAGGTTAAGTCTGCTATTGCTATACAAGGAGGCCTGACTGAACTT
CCCTGGGATGGAGGACTAAAGAGAGCAAAGGTGAAGGACATCTTTAAGGAAGAGCAGCAG
AAAAATTACAGCAAGATGATTGTGGCAATGGATCTCTCAGCTAA

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Clone variation with respect to NM_032717.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_032717 unedited
 ATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGAGTGCCGGGCTCGGCGCTC
 TGCTCCTGGAGCTCCCGCGGGACTGCCTGGGGACAGGGACTGCTGTGGCGCTCGGCCCTC
 CACTGCGGACCTCTCTGAGTGGGTGCGCCGAGTCATGGAGGGCGCAGAGCTGGCCGGGA
 AGATCCTTTCCACCTGGCTGACGCTGGTTCTCGGCTTCATCCTTTTACCTTCGGTCTTCG
 GAGTGTCTCTGGGCATCTCCGAGATCTACATGAAGATCCTAGTGAAAACTTTAGAGTGGG
 CCACAATACGAATTGAAAAAGGAACCCCAAGGAGTCGATTCTTAAAACTCTGCTTCTG
 TTGGTATTATCCAAAGAGATGAGTCACCCATGGAAAAAGGGCTCTCTGGTCTACGAGGAA
 GGGACTTTGAGCTGTCTGACGTGTTTTATTTCTCCAAGAAGGGATTGGAAGCCATTGTAG
 AAGATGAAGTGACCCAGAGGTTTTCTCAGAGGAGCTAGTGTCATGGAATCTCCTCACAA
 GAACCAATGTAAATTTCCAGTACATCAGTCTGCGGCTCACTATGGTGTGGGTGCTGGGCG
 TCATAGTGCCTATTGTCTCTACTGCCTCTGAGGTTACCTTGGCTTCATTGGATCAGTT
 TGCTGTTATAGGACTACCTGGNTGGCAGCTGCCAGACAGCAGCCTCAAAAAGTCTGAGT
 GAACTGTCCATCTGACTTGCTGCCGGATCTGTGTGCGAGCCCTCTCTGGTACCATTATA
 TCACTACCAGCAGTACAGACCCCAAGAGGAGCATTGTTGTGTGCCAACCACTACTCCCCA
 TGATGTTTATCTGACACGNATGATGTATGCTATGGTGGCCAGGTCATGGCGCTTGATGGG
 ATATTAAGAGCTTGCCAGGCTGCCTCTGGTTGTTTGACGCCAAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_032717 unedited
 NNNCCAATACTGTGTACCGCGCCCGCATACTGAGGATCGAGTTATTTCTTTTTTTTTTT
 TTTTTTTTTTTGTTCTTGGGAAATATATAATTGATTTATCTTCATAAGACAGTTTCACATT
 CTGTACATGGTTACCAGAACAGATACAATACTCTCAGTAGTTTACAACGGCATTATATTG
 GTGTCAAACATTGCTTATGCTGTGTGAGTTGGGGAAAACCTATTTTCCCCTCTAAAAAAA
 ATTAAGGCTCACTTTCCAAAAGATAATTATATCAGTCATTTTTCTGTTTAAAGAGACTGGG
 AAAATTCGGGAATAAAAAGCACAAAGGGGTGGAGGGTGAGGGGTAGCTCCACACACTCTC
 ATTCATTCACTGAAGTTACTCAATGTGATTTTTTTTTTTTTAAGGCTCCTTCTATCTGA
 AAATGTGTTTGGCTACAAAAACAAACAAATCAGTTGATGGGAGGGGTACTAGGTACAGAT
 CTACAGGATTCAAAACAGGAAAATAAGCTCTTTGTTACCAGTTGCTGGGTAAAAAGGGG
 GCTACGAGCTGCCTACATATAAATGCCACACACATTAACCTTTGACTCACTTTTCTTTGG
 CGAAACTTACTGAAGAGTATTTCTTCCAACACACTGATGACACTAATTTACATTTCTCT
 TCTGACTTTCAGAGCAGGTGGCCAAAAGTTGGCCCTTTTCTAAATAACAATCCTCCATT
 TTTCTTTTCAACCTTGCAGTAGACCATAACCATAATGGTCACTTTGGACTGATGGGTAAT
 CTCACCATTTTAGTGACTGAAGCAAGTGGCAGGCTAATTACAGAAAAGAGTTGGGGCATT
 TTTGGAGAAATACCTATCGATGAGTTCCAACACATTTTTCAGGCACTTTTTCTTTA

Restriction Sites:

NotI-NotI

ACCN:

NM_032717

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:	NM_032717.3 , NP_116106.2
RefSeq Size:	2534 bp
RefSeq ORF:	1305 bp
Locus ID:	84803
UniProt ID:	Q53EU6
Cytogenetics:	4q21.23
Domains:	Acyltransferase
Protein Families:	Transmembrane
Gene Summary:	<p>This gene encodes a member of the lysophosphatidic acid acyltransferase protein family. The encoded protein is an enzyme which catalyzes the conversion of glycerol-3-phosphate to lysophosphatidic acid in the synthesis of triacylglycerol. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jan 2012]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2 and 3 encode the same protein.</p>