

Product datasheet for **RC232713**

MAG1 (GPAT3) (NM_001256422) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAG1 (GPAT3) (NM_001256422) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAG1
Synonyms:	AGPAT8; AGPAT9; AGPAT 10; AGPAT10; HMFN0839; LPAAT-theta; MAG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC232713 representing NM_001256422. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGAGGGCGCAGAGCTGGCCGGGAAGATCCTTTCCACCTGGCTGACGCTGGTTCTCGGCTTCATCCTT
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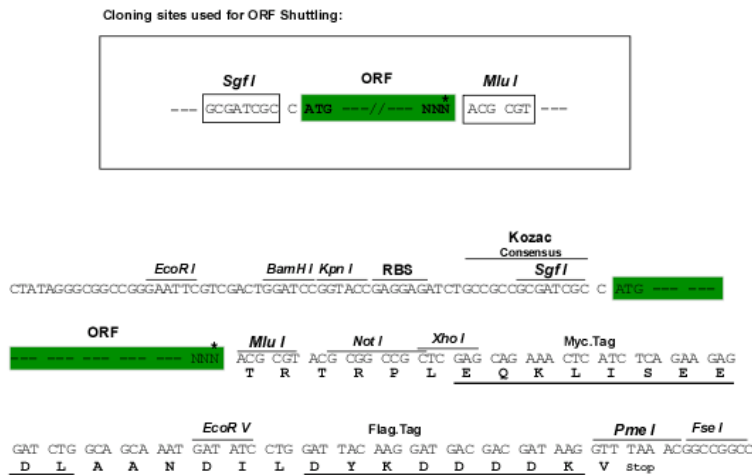
Protein Sequence: >Peptide sequence encoded by RC232713
 Blue=ORF Red=Cloning site Green=Tag(s)

MEGAELAGKILSTWLTWLVGFILLPSVFGVSLGISEIYMKILVKLEWATIRIEKGPKEKILKNSASV
 GIIQRDESPMEKGLSGLRGRDFELSDVFYFSKKGLEAIVEDEVTRFSSEELVSWNLLTRTNVNFQYIS
 LRLTMVWVLGVI VRYCVLLPLRVTLAFIGISLLVIGTTLVGLPDSCLKNWLSELVHLTCRICVRALS
 GTIHYHNKQYRPQKGGICVANHTSPIDVLIITTDGCIYAMVGVHGLMGIQRAMVKACPHVWFERSEM
 KDRHLVTKRLKEHIADKKLPILIFPEGTCINNTSVMMFKKGSFEIGGTIHPVAIKYNPQGFDAFWNSS
 KYNMVSYLLRMMTSWAIVCDVWYMPMTREEGEDAVQFANRVKSAIAIQGGLTELPWDGGLKRAKVKDI
 FKEEQKNYSKMI VGNLSLS
 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6200_f07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001256422

ORF Size: 1302 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_001256422.1](#), [NP_001243351.1](#)

RefSeq Size: 2644 bp

RefSeq ORF: 1305 bp

Locus ID: 84803

UniProt ID: [Q53EU6](#)

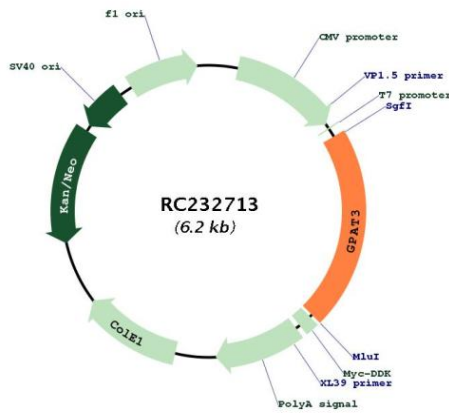
Cytogenetics: 4q21.23

Protein Families: Transmembrane

MW: 48.7 kDa

Gene Summary: 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]

Product images:



Circular map for RC232713