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Product datasheet for SC106982

GPAM (NM_020918) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPAM (NM_020918) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPAM
Synonyms:	GPAT; GPAT1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene ORF sequence for NM_020918 edited
GAATTCGGCACGAGGAGTGCGGGCTTCTGCAGCAGCCGAAGCTGGAGCTGCTAGGGCAGC
AGCGGCTCCCCTGTTGTATGGACATTCTGCACCCGAAACTGATAGCTGAGTCCTGAAGTT
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TACGAAGGAGGTTGATTGCAAATCTGGCTGAGCATATTCTATTCACTGCTAGCAAGTCCT
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_020918 unedited
ATTTTGTAATACGACTCACTTATAGGGCGGCCGCGAATTCGCACGAGGAGTGCGGGCTTC
TGCAGCAGCCGAAGCTGGAGCTGCTAGGGCAGCAGCGGCTCCCCTGTTGTATGGACATTC
TGCACCCGAAACTGATAGCTGAGTCCTGAAGTTTTATGTTATGAAACAGAAGAACTTTCA
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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_020918 unedited
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CATCAATTCCTATAAGAAAAAATATATTNTAAATGCAGAACTTGAGAGGGATCACACAGC
ATAGCATTATTGCTATGAGTTTCAAACATGGGATTTCATACAATGTGAC

Restriction Sites: NotI-NotI

ACCN: NM_020918

Insert Size: 5000 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: NM_020918.2, NP_065969.2

RefSeq Size: 6387 bp

RefSeq ORF: 2487 bp

Locus ID: 57678

UniProt ID: Q9HCL2

Cytogenetics: 10q25.2

Protein Pathways: Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways

Gene Summary: This gene encodes a mitochondrial enzyme which prefers saturated fatty acids as its substrate for the synthesis of glycerolipids. This metabolic pathway's first step is catalyzed by the encoded enzyme. Two forms for this enzyme exist, one in the mitochondria and one in the endoplasmic reticulum. Two alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Oct 2011]
Transcript Variant: This variant (2) uses a different splice site in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same protein.