

Product datasheet for **MR210843**

Gpam (NM_008149) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpam (NM_008149) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpam
Synonyms:	GPAT; GPAT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MR210843 representing NM_008149
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGAGTCTTCAGTGACAGTTGGCACAATAGACGTTTCTTATCTGCCAGTTCATCGGAATACAGCC
 TTGGCCGATGTAAACACACCAGTGAGGACTGGGTTGACTGTGGTTCAAACCTACCTTCTCAGATCTGC
 AACACTGAAATGGAAGGAGAGCCTTATGAGCCGGAAGAGGCCCTTCGTGGGAAGGTGCTGCTATTCTCGC
 ACGCCACAGAGCTGGGAAAGTTTTTCAACCCAGTATCCCATCTCTGGGTTTGGCGAATGTTATTATA
 TCAATGAAACGCACACAAGGCACAGAGGATGGCTGGCAGACGGCTGTCTTACATCCTTTTTGTTCAAGA
 GCGAGAGCTCCATAAGGGCATGTTTCCACCAGTGTACTGAGAATGACTGAGCAGCAGCAGAGTCCAA
 GAGGCAATTGCTGAAGTGGCTGCGGAGTTGAACCCAGATGGATCTGCCAGCAGCAGTCCAAAGCCATCC
 AGAAGGTGAAAAGGAAAGCCAGGAAGATCTCCAGGAGATGGTCGCCACCGTCTCCCAGGGATGATCAG
 GCTGACTGGCTGGTGTACTAAAGCTTCTCAACAGCTTCTTCTGGAACATTCAGATTACAAGGGTCAA
 CTGAGATGGTCAAGGCTGCAACTGAGACGAACCTGCCGCTCTTGTCTGCCGGTGACAGATCCACAA
 TTGACTACCTGTTGCTCACCTTCATCCTTTTTGCCACAACATCAAGGCGCCGTACATCGCCTCGGGCAA
 TAATCTCAACATCCCGTCTTCACTACCTTGATTCAACAAGCTTGGGGGCTTTTTTCATAAGACGGAGGCTC
 GATGAAACCCAGATGGACGCAAGACATTCTGTACAGAGCGTTGCTCCATGGGCATGTAGTTGAACTCC
 TCCGACAGCAGCAGTTCCTGGAGATCTTCTGGAAGGCACCCGCTCCCGCAGTGGCAAGACCTCTGTGC
 CCGGCAGGGCTCCTCTCAGTGGTAGTGGATACTCTGTCGTCCAACACCATCCCGACATCCTCGTCATA
 CCCGTGGGCATCTCGTATGATCGCATAATCGAAGTCACTACAATGGCGAACAGTTGGGAAAGCCCAAGA
 AGAACGAGAGCCTCTGGAGTGTGGCAGAGGGCTTATCAGAATGCTGCGGAAAAACTACGGCTACGTCGG
 AGTGGATTTTGCACAGCCATTTTCTTGAAGGAATATTTAGAAGGCCAGAGTCAGAAACCTGTATCTGCC
 CCCCTTCTCTGGAGCAAGCACTGTTACCAAGCAGTCTTCTTCAAGACCGAATGATGTTGCTGATGAAC
 ATCAAGACCTATCCAGTAACGAGTCCAGAAACCCAGCAGACGAAGCCTCCGACGAAGGCTGATTGCAAA
 CCTGGCTGAGCACATTCTTCCACCGCCAGCAAGTCTGCGCTATCATGTCCACCCACATTGTGGCCTGT
 CTGCTCCTCTACAGACACAGGCAGGGAATCCATCTCTCCACGCTTGTGGAAGACTCTTTGTGATGAAGG
 AGGAAGTCTAGCTCGGATTTGACCTAGGCTTCTCCGGGAATTCAGAAGATGTCGTATGCATGCTAT
 TCAGTCTTGGGAACTGTGTCACAATCACCCACAGCAGGAAAGATGAGTTTTTATTACTCCAGC
 ACAACTGTCCCGTCAGTCTTTGAACTCACTTCTACAGCAATGGCGTACTTCATGTGTTTCATCATGGAAG
 CCATCATAGCTTGCAGCATCTATGCAGTCTGAATAAGAGGTGCTCTGGAGGGTCCGCTGGAGGCCCTCGG
 CAACCTGATCAGCCAGGAGCAGCTGGTGAGGAAGGCCGCCAGCCTGTGCTACCTTCTCTAACGAAGGT
 ACCATTTCTCTGCCCTGCCAGACTTTTTACCAAGTTTGTGATGAGACAGTTGGCAAGTTCATCCAGTATG
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 CAAGAAGCTTCCGGAAGTGAAGTGGAGAAGTGACGAGGAAGATGAAGACAGTGAAGTGGTGGAGGAGCAG
 CGAGATTGCTATCTCAAGGTGAGCCAGTCCAAGGAGCACCAGCAATTCATCACCTTTCTCAGAGGCTTC
 TAGGTCCCCTGCTAGAAGCCTACAGCTCTGCTGCCATCTTTGTCCACAACCTCAGCGTCCAGTTCGCGA
 GTCTGAGTACCTGCAGAACTGCACAGGTACCTTATCACCAGGACGGAAGGAACGTTGCCGTGTACGCT
 GAGAGTGCCACATACTGTCTCGTGAAGAAGCCTGTGAAAATGTTTAAGGACATCGGGTTTTCAAAGAGA
 CCAAGCAAAGCGAGTGTCTGTTCTAGAAGTGAAGTACTTTCTACCTCAGTGAACCGGCAGAACT
 CCTAGAGTATATTCTGAGTTTTGTGGTGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210843 representing NM_008149
Red=Cloning site Green=Tags(s)

MEESSVTGTIDVSYLPSSEYSLGRCKHTSEDWDCGFKPTFFRSATLKWKESLSMRKRPFVGRCCYSC
TPQSWERFFNPSIPSLGLRNVIYINETHRHRGWLARRLSYILFVQERDVHKGMFATSVTENVLSSRVQ
EAIAEVAEELNPDGSAQQQSKAIQKVKRKARKILQEMVATVSPGMIRLTGWVLLKLFNSFFWNIQIHKGQ
LEMVKAATETNLPLLLFVPVHRSHIDYLLLTFFILFCHNIKAPYIASGNLNIIPVFSTLIHKLGGFFIRRRRL
DETPDGRKDILYRALLHGHVVELLRQQQFLEIFLEGTRSRSGKTSCARAGLLSVVVDLSSNTIPDILVI
PVGISYDRIIEGHYNGEQLGKPKKNESSLWSVARGVIRMLRKNYGYVRVDFQAQPFSLKEYLEGQSQKPVSA
PLSLEQALLPAILPSRPNDVADEHQDLSSNESRNPADAFRRRLIANLAEHILFTASKSCAIMSTHIVAC
LLLVRHRQGIHLSTLVEDFFVMKEEVLARDFDLGFSGNSDVMHAIQLLGNCVTITHTSRKDEFFITPS
TTVPSVFELNFYSNGVLHVFIMEAIIACSIYAVLNKRCSSGGSAGGLGNLISQEQVLRKAASLCYLLSNEG
TISLPCQTFYQVCHETVGKFIQYGILTVAEQDDQEDVSPGLAEQQWDDKLPENWRSDEEDEDSDFGEEQ
RDCYLKVSQSKEHQQFITFLQRLGPLEAYSSAAIFVHNFSGPVPESEYLQKLHRYLITRTERNAVYYA
ESATYCLVKNVAKMFKDIGVFKETKQKRVSVLELSSTFLPQCNRQKLEYLEILSFVVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9039_g10.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



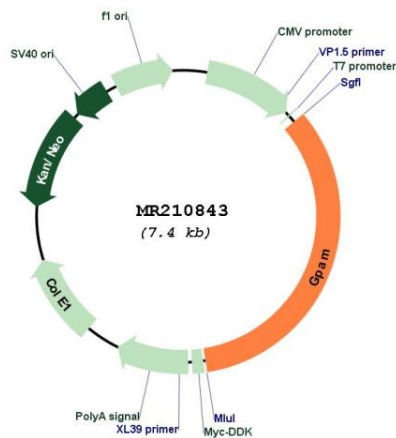
ACCN: NM_008149

ORF Size: 2481 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<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_008149.4
RefSeq Size:	3852 bp
RefSeq ORF:	2484 bp
Locus ID:	14732
UniProt ID:	Q61586
Cytogenetics:	19 50.81 cM
MW:	94.2 kDa
Gene Summary:	Esterifies acyl-group from acyl-ACP to the sn-1 position of glycerol-3-phosphate, an essential step in glycerolipid biosynthesis.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MR210843