

Product datasheet for **RC205509**

GPAM (NM_020918) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | GPAM (NM_020918) Human 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:

>RC205509 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGATGAATATGCACTGACCCTTGGTACAATAGATGTTTCTTATCTGCCACATTCATCAGAATACAGTG
TTGGTCGATGTAAGCACACAAGTGAGGAATGGGTGAGTGTGGCTTTAGACCCACCATCTTCAGATCTGC
AACTTTAAAATGGAAAGAAAGCCTAATGAGTCGGAAAAGGCCATTTGTTGGAAAGATGTTGTTACTCTGC
ACTCCCCAGAGCTGGGACAAATTTTCAACACCAGTATCCCGTCTTTGGGTTTGGCGAATGTTATTATA
TCAATGAAACTCACACAAGACACCGCGGATGGCTTGAAGACGCCTTTCTACGTTCTTTTTATTCAAGA
GCGAGATGTGCATAAGGGCATGTTTCCACCAATGTGACTGAAAATGTGCTGAACAGCAGTAGAGTACAA
GAGGCAATTGCAGAAGTGGCTGTGAATTAACCCTGATGGTTCTGCCAGCAGCAATCAAAGCCGTTA
ACAAAGTAAAAAGAAAGCTAAAAGGATCTTCAAGAAATGGTTGCCACTGTCTCACCGCAATGATCAG
ACTGACTGGTGGTGTGCTAAAAGTGTCAACAGCTTCTTTTGAACATTCAAATTCACAAAGGTCAA
CTTGAGATGGTTAAAGCTGCAACTGAGACGAATTTGCCGCTTCTGTTTCTACCAGTTCATAGATCCATA
TTGACTATCTGCTGCTCACTTTCATTCTTCTTCCATAACATCAAAGCACCATAACATTGCTTCAGGCAA
TAATCTCAACATCCCAATCTTCAGTACCTTGATCCATAAGCTTGGGGGCTTCTTCATACGACGAAGGCTC
GATGAAACACCAGATGGACGGAAGATGTTCTCTATAGAGCTTTGCTCCATGGGCATATAGTTGAATTAC
TTCGACAGCAGCAATTCTTGAGATCTTCTGGAAGGCACACGTTCTAGGAGTGGAAAAACCTCTTGTC
TCGGGCAGGACTTTTGTCAAGTGTGGTAGACTCTGTCTACCAATGTATCCCAGACATCTTGATAATA
CCTGTTGGAATCTCTATGATCGCATTATCGAAGTCACTACAATGGTGAACAACTGGGCAAACTAAGA
AGAATGAGAGCCTGTGGAGTGTAGCAAGGTGTTATTAGAATGTTACGAAAAAACTATGGTTGTGTCGG
AGTGGATTTTGCACAGCCATTTTCTTAAAGGAATATTTAGAAAGCCAAAGTCAGAAACCGGTGCTGCT
CTACTTCCCTGGAGCAAGCGTTGTTACAGCTATACTTCTTCAAGACCCAGTGTGCTGCTGATGAAG
GTAGAGACACGTCCATTAATGAGTCCAGAAATGCAACAGATGAATCCCTACGAAGGAGGTTGATTGCAAA
TCTGGCTGAGCATATTCTATTCACTGCTAGCAAGTCTGTGCCATTATGTCCACACACATTGTGGCTTGC
CTGCTCTCTACAGACACAGGCAGGGAATTGATCTCTCCACATTTGGTGAAGACTTCTTTGTGATGAAAG
AGGAAGTCTGGCTCGTATTTTACCTGGGGTCTCAGGAAATCAGAAGATGTAGTAATGCATGCCAT
ACAGCTGTGGGAAATTTGTGCACAATCACCCACACTAGCAGGAACGATGAGTTTTTATCACCCCAGC
ACAAGTGTCCATCAGTCTTCGAACTCACTTCTACAGCAATGGGTACTTCATGTCTTTATCATGGAGG
CCATCATAGCTTGCAGCCTTTATGCAGTCTGAACAAGAGGGGACTGGGGGGTCCCACTAGCACCCACC
TAACCTGATCAGCCAGGAGCAGCTGGTGCAGGAAAGCGGCCAGCCTGTGCTACCTTCTCCAATGAAGGC
ACCATCTCACTGCCTTGGCAGACATTTTACCAAGTCTGCCATGAAACAGTAGGAAAGTTTATCCAGTATG
GCATTCTTACAGTGGCAGAGCAGATGACCAGGAAGATATCAGTCTAGTCTTGTGAGCAGCAGTGGGA
CAAGAAGCTTCCAGAACCTTTGTCTTGGAGAAGTATGAAGAAGATGAAGACAGTACTTTGGGGAGGAA
CAGCGAGATTGCTACCTGAAGGTGAGCCAATCCAAGGAGCACCAGCAGTTTATCACCTTCTTACAGAGAC
TCCTTGGGCCTTTGTGAGGCTTACAGCTGCTGCCATCTTTGTTCACAACTTCAGTGGTCTGTTCC
AGAACCTGAGTATCTGCAAAAGTTGCACAAATACCTAATAACCAGAACAGAAAGAAATGTTGAGTATAT
GCTGAGAGTGCCACATATTGCTTGTGAAGAATGCTGTGAAAATGTTTAAAGGATATTGGGTTTTCAAGG
AGACCAAAACAAAAGAGAGTGTCTGTTTTAGAAGTGTGAGCAGCAGCTTTTCTACCTCAATGCAACCGACAAA
ACTTCTAGAATATATTCTGAGTTTTGTGGTGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205509 protein sequence
Red=Cloning site Green=Tags(s)

MDEYALTLGTIDVSYLPHSSEYSVGRCKHTSEEWGECGFRPTIFRSATLKWKESLSMRKRPFVGRCCYSC
TPQSWDKFFNTSIPSLGLRNVIYINETHTRHRGWLARRLSYVLFIQERDVHKGMFATNVTENVLNSSRVQ
EAIAEVAEELNPDGSAQQQSKAVNKVKKKAKRILQEMVATVSPAMIRLTGWVLLKLFNSFFWNIQIHKGQ
LEMVKAATETNLPLLLFVHRSHIDYLLLTFFILFCHNIKAPYIASGNLNIPIFSTLIHKLGGFFIRRRRL
DETPDGRKDVLYRALLHGHIVELLRQQQFLEIFLEGTRSRSGKTSARAGLLSVVVDLSTNVIPDILII
PVGISYDRIIEGHYNGEQLGKPKKNESSLWSVARGVIRMLRKNYGCVRVDFQAQPFSLKEYLESQSQKPVSA
LLSLEQALLPAILPSRPSDAADEGRDTSINESRNATDESLRRRLIANLAEHILFTASKSCAIMSTHIVAC
LLLVRHRQGIDLSTLVEDFFVMKEEVLARDFDLGFGNSEDEVVMHAIQLLGNCVTITHTSRNDEFFITPS
TTVPSVFELNFYSNGVLHVFIMEAIIACSLYAVLNKRGLGGPTSTPPNLISQEQLYRKAASLCYLLSNEG
TISLPCQTFYQVCHETVGKFIQYGILTVAEHDDQEDISPSLAEQQWKKLPEPLSWRSDEEDEDSDFGEE
QRDCYLKVSQSKEHQQFITFLQRLGPLEAYSSAAIFVHNFGPVPEPEYLQKLHKYLITRTERNVAVY
AESATYCLVKNVCMFKDIGVFKETKQKRVSVLELSSSTFLPQCNRQKLLEYILSFVVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6290_a08.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_020918

ORF Size: 2484 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_020918.1](#)

RefSeq Size: 6402 bp

RefSeq ORF: 2487 bp

Locus ID: 57678

UniProt ID: [Q9HCL2](#)

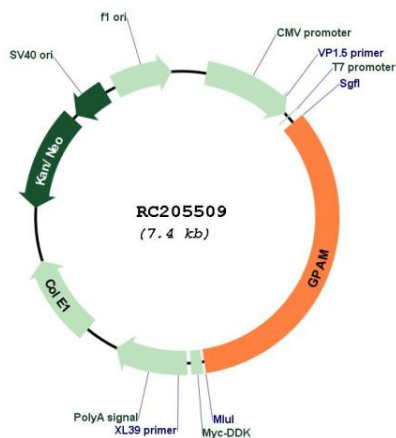
Cytogenetics: 10q25.2

Protein Pathways: Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways

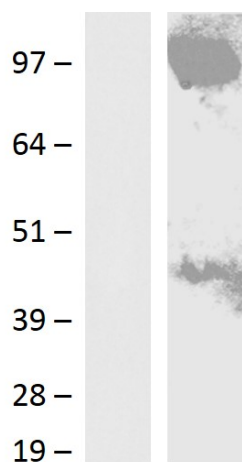
MW: 93.9 kDa

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]

Product images:



Circular map for RC205509



Western blot validation of overexpression lysate (Cat# [LY412216]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205509 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).