

Product datasheet for **RG205509**

GPAM (NM_020918) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPAM (NM_020918) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPAM
Synonyms:	GPAT; GPAT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG205509 representing NM_020918
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGAATATGCACTGACCCTTGGTACAATAGATGTTTCTTATCTGCCACATTCATCAGAATACAGTG
 TTGGTCGATGTAAGCACACAAGTGAGGAATGGGGTGAGTGTGGCTTTAGACCCACCATCTTCAGATCTGC
 AACTTTAAAATGGAAAAGAAAGCCTAATGAGTCGGAAAAGGCCATTTGTTGGAAAGATGTTGTTACTCTGC
 ACTCCCCAGAGCTGGGACAAATTTTCAACACCAGTATCCCGTCTTTGGGTTTGGCGAATGTTATTTATA
 TCAATGAAACTCACACAAGACACCGCGGATGGCTTGAAGACGCCTTTCTTACGTTCTTTTTATTCAAGA
 GCGAGATGTGCATAAGGGCATGTTTCCACCAATGTGACTGAAAATGTGCTGAACAGCAGTAGAGTACAA
 GAGGCAATTGCAGAAGTGGCTGTGAATTAACCCCTGATGGTTCTGCCAGCAGCAATCAAAGCCGTTA
 ACAAGTGAAGAAAAGAAAGCTAAAAGGATCTTCAAGAAATGGTTGCCACTGTCTCACCGCAATGATCAG
 ACTGACTGGTGGTGTGCTAAAAGTGTCAACAGCTTCTTTTGAACATTCAAATTCACAAGGTCAA
 CTTGAGATGGTTAAAGCTGCAACTGAGACGAATTTGCCGCTTCTGTTTCTACCAGTTCATAGATCCATA
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 TAATCTCAACATCCCAATCTTCAGTACCTTGATCCATAAGCTTGGGGGCTTCTTCATACGACGAAGGCTC
 GATGAAACACCAGATGGACGGAAGATGTTCTCTATAGAGCTTTGCTCCATGGGCATATAGTTGAATTAC
 TTCGACAGCAGCAATCTTGGAGATCTTCTGGAAGGCACACGTTCTAGGAGTGGAAAACTCTTGTGC
 TCGGGCAGGACTTTTGTCAAGTGTGGTAGACTCTGTCTACCAATGTCTCCAGACATCTTGATAATA
 CCTGTTGGAATCTCTATGATCGCATTATCGAAGTCACTACAATGGTGAACAACTGGGCAAACTAAGA
 AGAATGAGAGCCTGTGGAGTGTAGCAAGAGGTGTTATTAGAATGTTACGAAAAAATATGGTTGTGTC
 AGTGGATTTTGCACAGCCATTTTCTTAAAGGAATATTTAGAAAAGCCAAAGTCAGAAACCGGTGTCTGCT
 CTACTTTCCCTGGAGCAAGCGTTGTTACAGCTATACTTCTTCAAGACCCAGTGTGCTGCTGATGAAG
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 TCTGGCTGAGCATATTCTATTCACTGCTAGCAAGTCTGTGCCATTATGTCCACACACATTGTGGCTTGC
 CTGCTCTCTACAGACACAGGCAGGGAATTGATCTCTCCACATTTGGTGAAGACTTCTTTGTGATGAAAG
 AGGAAGTCTGGCTCGTGATTTTACCTGGGGTCTCAGGAAATCAGAAGATGTAGTAATGCATGCCAT
 ACAGCTGTGGGAAATTTGTGCACAATCACCCACACTAGCAGGAACGATGAGTTTTTATCACCCCCAGC
 ACAACTGTCCCATCAGTCTTCAACTCACTTCTACAGCAATGGGGTACTTCATGTCTTTATCATGGAGG
 CCATCATAGCTTGCAGCCTTTATGCAGTCTGAACAAGAGGGGACTGGGGGGTCCCACTAGCACCCACC
 TAACCTGATCAGCCAGGAGCAGCTGGTGCAGGAAAGCGGCCAGCCTGTGCTACCTTCTCTCAATGAAGGC
 ACCATCTCACTGCCTTGGCAGACATTTTACCAAGTCTGCCATGAAACAGTAGGAAAGTTTATCCAGTATG
 GCATTCTTACAGTGGCAGAGCAGATGACCAGGAAGATATCAGTCTAGTCTTGTGAGCAGCAGTGGGA
 CAAGAAGCTTCCAGAACCTTTGTCTTGGAGAAGTATGAAGAAGATGAAGACAGTACTTTGGGGAGGAA
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 TCCTTGGGCCTTTGTGAGGCTTACAGCTCTGCTGCCATCTTTGTTCACAACTTCAGTGGTCTGTTCC
 AGAACCTGAGTATCTGCAAAAGTTGCACAAATACCTAATAACCAGAACAGAAAGAAATGTTGAGTATAT
 GCTGAGAGTGCCACATATTGCTTGTGAAGAATGCTGTGAAAATGTTTAAAGGATATTGGGGTTTTCAAGG
 AGACCAAAACAAAAGAGAGTGTCTGTTTTAGAAGTGTGAGCAGCAGTCTTCTACCTCAATGCAACCGACAAA
 ACTTCTAGAATATATTCTGAGTTTTGTGGTGTG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205509 representing NM_020918
Red=Cloning site Green=Tags(s)

MDEYALTLGTIDVSYLPHSSEYSVGRCKHTSEEWGECGFRPTIFRSATLKWKESLSMRKRPFVGRCCYSC
TPQSWDKFFNTSIPSLGLRNVIYINETHRHRGWLARRLSYVLFIQERDVHKGMFATNVTVENLNSRVQ
EAIAEVAEELNPDGSAQQQSKAVNKVKKKAKRILQEMVATVSPAMIRLTGWVLLKLFNSFFWNIQIHKGQ
LEMVKAATETNLPLLLFPVHRSHIDYLLLTFFILFCHNIKAPYIASGNLNIPIFSTLIHKLGGFFIRRRRL
DETPDGRKDVLYRALLHGHIVELLRQQQFLEIFLEGTRSRSGKTSCARAGLLSVVVDLSTNVIPDILII
PVGISYDRIIEGHYNGEQLGKPKKNESSLWSVARGVIRMLRKNYGCVRVDFQAQPFSLKEYLESQSQKPVSA
LLSLEQALLPAILPSRPSDAADEGRDTSINESRNATDESLRRRLIANLAEHILFTASKSCAIMSTHIVAC
LLLVRHRQGIDLSTLVEDFFVMKEEVLARDFDLGFSGNSDEVVMHAIQLLGNCVTITHTSRNDEFFITPS
TTVPSVFELNFYSNGVLHVFIMEAIIACSLYAVLNKRGLGGPTSTPPNLISQEQLYRKAASLCYLLSNEG
TISLPCQTFYQVCHETVGKFIQYGILTVAEHDDQEDISPSLAEQQWKKLPEPLSWRSDEEDEDSDFGEE
QRDCYLKVSQSKEHQFIFLQRLGPLEAYSSAAIFVHNFSGPVPEPEYLQKLHKYLITRTERNVAVY
AESATYCLVKNVVKMFKDIGVFKETKQKRVSVLELSSTFLPQCNRQKLLEYILSFVVL

TRTRPLE - GFP Tag - V

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: 6387 bp

RefSeq ORF: 2487 bp

Locus ID: 57678

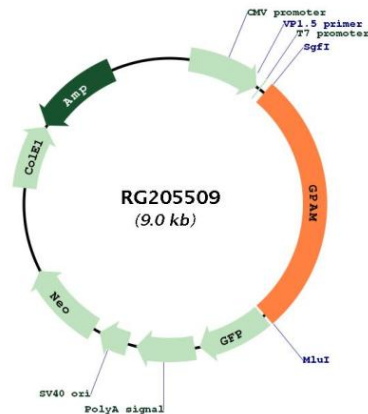
UniProt ID: [Q9HCL2](#)

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]

Product images:



Circular map for RG205509