

## Product datasheet for **RG208614**

### GPAT4 (NM\_178819) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GPAT4 (NM_178819) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPAT4
Synonyms:	1-AGPAT 6; AGPAT6; LPAAT-zeta; LPAATZ; TSARG7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG208614 representing NM\_178819  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTCTGTTGCTGCCTTTTGATAGCCTGATTGTCAACCTTCTGGGCATCTCCCTGACTGTCCTTCA  
 CCCTCCTTCTCGTTTTTCATCATAGTGCCAGCCATTTTTGGAGTCTCCTTTGGTATCCGCAAACCTCTACAT  
 GAAAAGTCTGTTAAAAATCTTTCGCTGGGCTACCTTGAGAATGGAGCGAGGAGCCAAAGGAGAAGAACCAC  
 CAGCTTTACAAGCCCTACACCAACGGAATCATTGCAAAGGATCCCACTTCACTAGAAGAAGAGATCAAAG  
 AGATTCGTCGAAGTGGTAGTAGTAAGGCTCTGGACAACACTCCAGAGTTCGAGCTCTCTGACATTTTCTA  
 CTTTTGCCGAAAGGAATGGAGACCATTATGGATGATGAGGTGACAAAGAGATTCTCAGCAGAAGAAGT  
 GAGTCTGGAACCTGCTGAGCAGAACCAATTATAACTCCAGTACATCAGCCTTCGGCTCACGGTCTGT  
 GGGGTTAGGAGTCTGATTCCGTAAGTCTGCTGCGCTCAGGATAGCACTGGCTTTCACAGGGAT  
 TAGCCTTCTGGTGGTGGGCACAACCTGTGGTGGGATACTTGCCAAATGGGAGGTTTAAAGAGTTCATGAGT  
 AAACATGTTCACTTAATGTGTTACCGGATCTGCGTGCAGCGCTGACAGCCATCATCACCTACCATGACA  
 GGGAAAACAGACCAAGAAATGGTGGCATCTGTGTGGCCAATCATACCTCACCGATCGATGTGATCATCTT  
 GGCCAGCGATGGCTATTATGCCATGGTGGGTCAAGTGCACGGGGACTCATGGGTGTGATTAGAGAGCC  
 ATGGTGAAGGCCTGCCACACGCTCTGGTTTGGAGCGCTCGGAAGTGAAGGATCGCCACCTGGTGGCTAAGA  
 GACTGACTGAACATGTGCAAGATAAAAGCAAGTGCCTATCCTCATCTTCCAGAAGGAACCTGCATCAA  
 TAATACATCGGTGATGATGTTCAAAAAGGAAGTTTTGAAATTGGAGCCACAGTTTACCCTGTTGCTATC  
 AAGTATGACCCCTCAATTTGGCGATGCCTTCTGGAACAGCAGCAAAACCGGATGGTGACGTACCTGCTGC  
 GAATGATGACCAGCTGGCCATTGTCTGACGCGTGTGGTACCTGCCTCCCATGACTAGAGAGGCAGATGA  
 AGATGCTGTCCAGTTTGCGAATAGGGTGAAATCTGCCATTGCCAGGCAGGAGGACTTGTGGACCTGCTG  
 TGGGATGGGGCCTGAAGAGGGAGAAGGTGAAGGACACGTTCAAGGAGGAGCAGCAGAAGCTGTACAGCA  
 AGATGATCGTGGGAACCAAGGACAGGAGCCGCTCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG208614 representing NM\_178819  
 Red=Cloning site Green=Tags(s)

MFLLLPFDLIVNLLGISLTVLFTLLLVIIVPAIFGVSFGRKLYMKSLKIFAWATLRMERGAKEKNH  
 QLYKPYTNGIIAKDPTSLEEEIKEIRRSKALDNTPEFELSDIFYFCRKGMEIMDDEVTKRFSAEEL  
 ESWNLLSRTNYNFYISLRLTVLWGLVLIYRFLPLRIALFTGISLLVVGTTVVGYLPNGRFKEFMS  
 KHVHLMCYRICVRALTAITYHDRENRPNGGICVANHTSPIDVILASDGYAMVGVHGLMGVIQRA  
 MVKACPHVWFERSEVKDRHLVAKRLTEHVQDKSKLPILIFPEGTCINNTSVMFMFKGSFEIGATVYVPAI  
 KYDPQFGDAFWNSKYGMVTYLLRMMSWAIVCSVWYLPMTREADEDAVQFANRVKSAIARQGGLVDLL  
 WDGGLKREKVKDTFKEEQKLYSKMIVGNHKDRSRS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_178819

**ORF Size:** 1368 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\\_178819.4](#)

**RefSeq Size:** 2592 bp

**RefSeq ORF:** 1371 bp

**Locus ID:** 137964

**UniProt ID:** [Q86UL3](#)

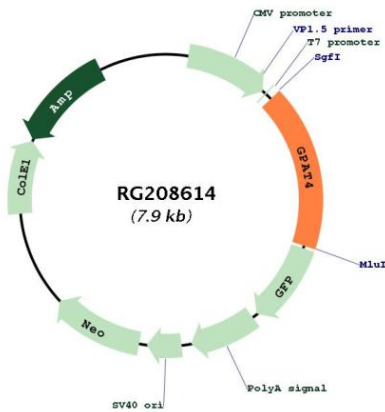
**Cytogenetics:** 8p11.21

**Protein Families:** Transmembrane

**Protein Pathways:** Ether lipid metabolism, Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways

**Gene Summary:** Lysophosphatidic acid acyltransferases (EC 2.3.1.51) catalyze the conversion of lysophosphatidic acid (LPA) to phosphatidic acid (PA). LPA and PA are involved in signal transduction and lipid biosynthesis.[supplied by OMIM, Apr 2004]

**Product images:**



Circular map for RG208614