

Product datasheet for **MG219094**

Gpat3 (NM_172715) Mouse Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Gpat3 (NM_172715) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Gpat3 |
| Synonyms: | 1-AGPAT; 1-AGPAT 9; 4933407I02Rik; 4933408F15; A230097K15Rik; GPAT-3; Gpat3; mGPAT3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG219094 representing NM_172715 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGGCGCAGACCTGGCAGTGAAGCTCCTGTCCACCTGGCTGACGCTGGTGGGCGGCCTCATCCTTT
TACCCTCGGCCTTCGATTATCCCTGGGTATCTCGGAGATCTACATGAAGATCCTGGTGAACCTTGGG
GTGGGCCACATTACGAATTCAGAAAGGAGCCCCAAGGAGTCAGCTCTAAAACTCAGCTTCTGTGGGT
ATTATCCAAAGAGATGAGTCACCCATGGAGAAAGGGCTCTCTGGTCTTCGAGGAAGGACTTCGAGCTCT
CTGATGTGTTCTATTTCTCCAAGAAGGGTGGAAAGCCATTGTGGAGGATGAAGTGACCCAGAGGTTCTC
CTCCGAAGAGCTAGTATCATGGAACCTCCTCACACGAACCAATGTCAACTTTTCAGTACATCAGTCCAAGG
CTCACCATGGTGTGGGTGCTGGGTGTCCTAGTGCCTATTGCTTCTGCTACCTCTGAGGGTCAACCTGG
CTTTTCATTGGGATCAGCTTGCTGATTATAGGAACTACACTGGTTGGCCAGCTTCCAGACAGCAGCCTCAA
AACTGGCTGAGTGAGCTGGTGCATCTGACCTGCTGCAGGATCTGTGTCGGTCCCTATCTGGCAGCAGT
CATTACCATAACAAGCAGTACAGACCCAGAAAGGGAGGTATCTGTGTCGCAATCACACCTCTCCATTG
ATGTCCTAATCCTGGCCACCGATGGATGTTACGCCATGGTTGGGAGGTTACGGTGGATTGATGGGGAT
CATTGAGAGCCATGGTTAAGGCTTGTCTCAGTCTGGTTGAGCGCTCAGAAATAAAGGACAGACAT
CTAGTGACTAAGAGATTAAGAACAACATTGCTGACAAGAAAAAGTTACCCATTCTAATCTCCAGAAG
GTACTTGATCAACAATACTTCAGTCTGATGTTTAAAAAGGGAAGCTTTGAAATCGGAGGAACCATCTA
TCCAGTGGCCATAAAGTATAACCCCGATTCGGCGATGCCTTCTGGAACAGTAGTAAATACAACCTGGTG
AGCTACCTGCTTCAATCATGACCAGCTGGGCCATTGTCTGCGACGTGGTACATGCCTCCCATGACCA
GAGAGGAAGGAGAAGACGAGTTCAGTTTGAAACAGGGTTAAATCTGCTATCGCTGTACAAGGAGGGCT
GACGGAACCTCCCTGGGATGGAGGGCTGAAGAGAGCAAAGGTGAAGGACACCTTCAAGGAAGAACAACAG
AAGAATTACAGCAAGATGATCGTGGCAACGGATCTCCCAACCTGGCGAGGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG219094 representing NM_172715
 Red=Cloning site Green=Tags(s)

MEGADLAVKLLSTWLTLVGGLILLPSAFGLSLGISEIYMKILVKTLWATLRIQKGAPKESALKNSASVG
 IIQRDESPMEKGLSGLRGRDFELSDVFYFSKKGLEAIVEDEVTRQFSSEELVSWNLLTRTNVNFQYISPR
 LTMVWVLGVLVRYCFLLPLRVTLAFIGISLLIIGTTLVQQLPDSSLKNWLSLVHLTCCRICVRSLSGTI
 HYHNKQYRPQKGGICVANHTSPIDVLILATDGCYAMVGQVHGGLMGI IQRAMVKACPHVWFERSEIKDRH
 LVTKRLKEHIADKKLPILIFPEGTCINNTSVMMFKKGSFEIGGTIYPVAIKYNPQFGDAFWNSSKYNLV
 SYLLRIMTSWAI VCDVWYMPMTREEGEDAVQFANRVKSAIAVQGG TELPWDGGLKRAKVKDTFKEEQ
 KNYSKMI VNGSPNLARD

TRTRPLE - GFP Tag - V

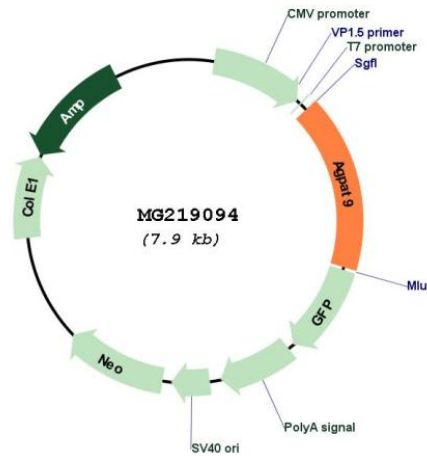
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_172715

| | |
|-------------------------------|---|
| ORF Size: | 1314 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: | <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_172715.2 |
| RefSeq Size: | 2877 bp |
| RefSeq ORF: | 1317 bp |
| Locus ID: | 231510 |
| UniProt ID: | Q8C0N2 |
| Cytogenetics: | 5 E4 |
| Gene Summary: | Converts glycerol-3-phosphate to 1-acyl-sn-glycerol-3-phosphate (lysophosphatidic acid or LPA) by incorporating an acyl moiety at the sn-1 position of the glycerol backbone (PubMed:17170135). Also converts LPA into 1,2-diacyl-sn-glycerol-3-phosphate (phosphatidic acid or PA) by incorporating an acyl moiety at the sn-2 position of the glycerol backbone (By similarity).[UniProtKB/Swiss-Prot Function] |