

Product datasheet for **MR209972**

Gnpat (NM_010322) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gnpat (NM_010322) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gnpat
Synonyms:	AU019525; D1Ertd819e; DHAPAT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR209972 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCCATGGACGTTCTAGCTCCTCCAGCTCCCGATTCTCGGTCGGCTCGGCCAGCCCTAGCAGTGTGCTCCTCT
ATGCGAAAGACCTCAAAAAGTGGGATGAGTTTGAAGATCTGTTAGAGGAGAGGAGACACATCAGTACTT
CAAATTTGCAATGAAGTGTACACCCCGCCTTGATAGGGGATCACTCCCTGCAAGCCAGGGGACATC
AAGTCCATTGCTCAGTCTGAAGAGATCAACTATGTCATTAAGCAGCTTTCTAGGGAGTCGCTGACAG
GTGTGGATGTCTCCGAGAGGAAGCCAGTGAATCCTCGAGGAGATGAGCCACAACTGCGCATAGGAGC
CATTGCGTTCTTTGCCTTTGTTCTGAGCAAAATCTTTAAACAGATCTTCTCAAAGGTGTGTGTAATGAA
GAAGGCATTCAAAGCTACAACGCGCTGTCCAGGAGCACCTGTGGTCTGCTGCCAGTACCCGAGCT
ACATTGACTTCTCATGTGTCTTCTTCTACAGCTATGACCTGCCTGTGCCAGTATCGCAGCAGG
AATGGACTTCTGGGAATGAGAGTGGTCACTGAGCTGCTCAGGATGTCTGGAGCCTTCTTATGCGACGC
ACTTTTGGAGGAAATAAACTCTACTGGGCGTATTCTCTGAATATGTGAAGACCATGCTGCGGTGTGGTT
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TCTCCTGAATATTGTGATGGAACCATTTTTTAAAAGAGAAGTCTTCGATACCTACTTTGTCCCAATTAGC
ATCAGTTATGATAAAATATTGGAAGAGAGTCTTTATGCATATGAGATCCTCGGAGTTCCTAAGCCGAAGG
AGTCCACCAGTGGATTGTTGAAAGCTAGACGGATTCTCTCTGAGAACTTTGGAAGCATCCATGTGACTT
CGGAGACCCTGTACTGCGTTCTAGCTGCAGGGCGCTCAATCGGAACACGTATAAATTGGTGCCA
AGATGCATCCCTCAGAAGCAGCTGAGGACGTGCAAGCCTTTGCTACTGAGGTGCGCTATAAGATGCAGC
TTCTGCAGATTGAAAACCTGGCTCTGAGCCATGGCTCCTGGTGGTCAACATTCTACTTCAAACACAGCT
ATCCATGGACTTTGACGCCCTGGTGGAGAAGACTCTGTGGCTGAAGGGCGTAACCCAGGTGTTGCGCGGG
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CCTTCTTAGTCGCCCTGGCTTTGCACATGACACCTGGGCTCAGGAAAGAGGATGTCTTCAAGTGTCTTT
CCTTCTCGCAATGTGTTTTAGATGAGTTCATCTTCTCCAGGAAACACACTCAGGGACTTTGAGGA
AGGCTGTACTTGTGTAAAGCTGAGGCTATGCAGATGGCTGGGAAGGACATCATCCTCACAGACAAA
GGGACTGTGTGTACAGTTCCTACAAGCCTTTAAGCCTTTGTGGAATCATATCAGTACTTTGCA
GATACCTTTGATGAAGAGGACTACTTTGGTGAGAAGGAATACTTGGTTGCAGCCAGGAAGTTCACCCG
TCAGTCTTGGATCAAGGCTCCTCAGTGTACGATGCGCTGTCTTCTGAACTGCAGAAAAATGCCTTA
GCAGCTTTGTCGAGACTGGGGTGGTGGAAAAGAAGATAGATAGTAAGTATGTGATTATGTGAACG
GGCCTGCCACAAGCAAGTTAGAAGAAATGCTCGGATGTAAGAAGCCAATAGGAAAACCAGCCACTGCAAA
ACTAACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209972 protein sequence
Red=Cloning site Green=Tags(s)

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MDVPSSSSSRFSVGSASPSSVLLYAKDLKKWDEFEDLLEERRHISDFKFAMKCYTPPLYRGITPCKPGDI
KSIIVLSSEEINYVIKQLSRESL TGVDVLRREEASEILEEMSHKLRIGAIRFFAFVL SKIFKQIFSKVCVNE
EGIQKLQRAVQEHPVLLPSHRSYIDFLMLSFILYSYDLPVPVIAAGMDFLGMRVSELLRMSGAFFMRR
TFGGNKLYWAVFSEYVKTMLRCGYAPVEFFLEGTRSRRAAKLTPKFGLLNIVMEPFFKREVFDTYFVPIS
ISYDKILEESLYAYEILGVPKPESTTGLLKARRILSENFSGIHVYFGDPVSLRSLAAGRLNRNTYNLVP
RCIPQKQPEDVQAFVTEVAYKMQLLQIENLALSPWLLVVTILLQNQLSMDFDALVEKTLWLKGVTVQVFGG
FLLWPDNKLPEEVVQSSILLHSNLASLVDQVVLKMNSGSSQVVNGLVPEHIALLMCSAYRNQLLNIFAR
PSLVALALHMTPLGRKEDVFSFSLRNVSDEFIFLPGNTRDFEEGCYLLCKAEAMQMAGKDIILTDK
GTAVLQFLTSLFKPFVESYQLLCRYLLHEEDYFGEKEYLVAARKFTRQLLDQSSQCYDALSSELQKNAL
AAFVRLGVVEKKIDSKYVYVNGPATSKLEMLGCKKPIGKPATAKL
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_010322

ORF Size: 2037 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_010322.2](#), [NP_034452.2](#)

RefSeq Size: 2984 bp

RefSeq ORF: 2037 bp

Locus ID: 14712

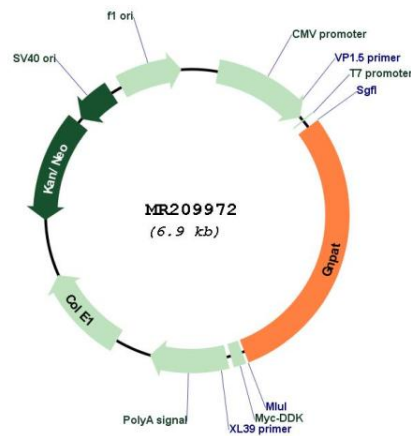
UniProt ID: [P98192](#)

Cytogenetics: 8 72.81 cM

MW: 76.9 kDa

Gene Summary: Dihydroxyacetonephosphate acyltransferase involved in plasmalogen biosynthesis. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209972