

Product datasheet for **RR204007**

Gnpat (NM_053410) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gnpat (NM_053410) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gnpat
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RR204007 representing NM_053410
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACGTTCTAGCTCCTCCAGCTCCCGATTCTCGGTCGGCTCTGCCAGCCCTAGCAGTGTCTCTCT
 ATGCGAAAGACCTCAAAAAGTGGGATGAGTTTGAAGACCTGTTGGAGGAGAGGAGACAGGTCAGTGATTT
 CAAATTTGCAATGAAGTCTACACACCACCTTGATAGAGGAATTAATCCCTGCAAGCCAAGTGATATC
 AAGTCCATCGTTCTCAATTCTGAAGAGATTAACATGTCAATTAAGCAGCTTCCAGGGAGTCCCTGACGG
 GTGTGGATGTGCTCAGAGAAGAGGCCAATGAGATCCTGGAGGAAATGAGTCACAACTGCGTATAGGAGC
 CATTGGTTCTTTGCCTTTGTTCTGAGCAAAGTTTTTAAACAGATCTTCTCAAAGGTGTGTGTGAATGAA
 GAAGGCATTCAAAGCTACAACGAGCGATCCAGGAGCACCCCGTATCCTGCTGCCAGCCACCGGAGCT
 ACATCGACTTCTCATGTGTCTTTGTCCTCTACAACATGACCTGCCCGTCCCGGTGATCGCAGCAGG
 GATGGACTTCTGGGAATGCGAGTGGTGAAGCAGCTGCTCAGGATGTCTGGGGCCTTCTTCATGCGACGT
 ACTTTTGGAGGAAATAAGCTCTACTGGGCGTATTCTCGGAATACGTGAAGACCATGCTACGGAGTGGTT
 ATGCTCCTGTTGAATTTTTCTCGAAGGACAAGGAGTCCAGCTGCCAAGACCTTGACTCCTAAATTCGG
 TCTCCTGAATATTGTGATGGAACCATTTTTTAAAAGAGAAGTTTTTGGATACCTACTTTGTCCCAATTAGC
 ATCAGTTATGATAAAATATTGGAAGAAAGTCTTTATGCGTATGAGCTCCTAGGAATCCCTAAGCCAAAGG
 AATCCACTACCGGACTGTTGAAAGCTAGACGGATTCTCTCTGAGAACTTTGGAAGTATCCATGTGTACTT
 TGGAGACCCTGTGCTACTGCGCTCTAGCTGCAGGGCGGCTCAGTCGGAACACGTATAACTTGGTGCCA
 AGGTGCATCCCTCAGAAGCAGCTGAGGATGTGCAAGCCTTTGCTACTGAAGTTGCCTATAAGATGCAGC
 TTTTGCAAATGAAAACCTGGCTCTGAGCCCATGGCTTCTGGTAGTTGCCATTCTGCTTCAGAACCCAGCT
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 TTCTGCTTTGGCCTGATAACAACTTCTGAGGAAGTGGTCCAGTCCAGTCCAGTCCCTGCACTCTAACC
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 CCTTCCCTAGTAGCTGTGGCTTTGCACATGACTCCTGGGCTCAGGAAAGAGGATGTCTTCAGTTGCTTTT
 CCTTCCCGCAACGTGTTTTAGATGAGTTCATCTTCTCCAGGAAACACACTCAGGGACTTTGAGGA
 AGGCTGTACTTGTGTAAAAGTGGGTTATGCAGATGACTGGGAAGGACATCATCTCACAGACAAA
 GGGAAATGTGTATTACAGTTCCTCACAGGACTCTTAAACCTTTTGTGGAATCGTATCAGATACTTTCCA
 AATGCCTCTTGCATGAAGAGGACTACTTCAAGTGAAGAGGACTTGGTACAGCCAGGAAGTTCACCCG
 CCAGCTTCTGGATCAAGATGCCTCTCAGTGTACGACGCGCTGTCTCTGAACTTCAAGAAGTGCCTTA
 GCAGCCTTCGTGAGACTCGGGTGGTAGAAAAGAAATAGGTAGACAGTAAATATGTGATTATGTCAACG
 GGCCTGCCACAAGCAAGTTAGAAGAAATGCTCGGATGTAAGAAGCCAATAGGAAAACCAGCCACTGCAAA
 ACTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR204007 representing NM_053410
 Red=Cloning site Green=Tags(s)

MDVPSSSSSRFSVGSASPSSVLLYAKDLKKWDEFEDLLEERRQVSDFKFAMKCYTPPLYRGITPCKPSDI
 KSIVLNSEEINYVIKQLSRESL TGVDVLRREEANEILEEMSHKLRIGAIRFFAFVLSKVFKQIFSKVCVNE
 EGIQKLQRAIQEHPVILLPSHRSYIDFLMLSFVLYNYDLPVPVIAAGMDFLGMRVSELLRMSGAFFMRR
 TFGGNKLYWAVFSEYVKTMLRSYAPVEFFLEGTRSRAAKLTPKFGLLNIVMEPFFKREVFDTYFVPIS
 ISYDKILEESLYAYELLGIPKPESTTGLLKARRILSENFSGIHVYFGDPVSLRSLAAGRLSRNTYNLVP
 RCIPQKQPEDVQAFVTEVAYKMQLLQIENLALSPWLLVVAILLQNQLCMDFDALVEKTLWLKGLTQVFGG
 FLLWPDNKLPEEVVQSSILLHSNLATLVKDQVVLKVDSESSQMVNGLVPQHIAFLMCSAYRNQLLNVFAR
 PSLVAVALHMTPLGRKEDVFSFSLRNVSDEFIFLPGNTRDFEEGCYLLCKTEVMQMTGKDIILTDK
 GNAVLQFLTGLFKPFVSYQILSKLLHEEDYFSEKEYLVTARKFTRQLLDQDASQCYDALSSELQKNAL
 AAFVRLGVVEKNKVDISKYVVYVNGPATSKLEMLGCKKPIGKPATAKL

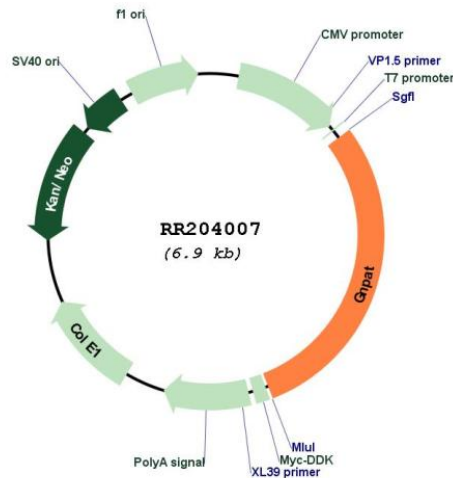
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_053410

ORF Size: 2034 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_053410.1](#), [NP_445862.1](#)

RefSeq Size: 2065 bp

RefSeq ORF: 2037 bp

Locus ID: 84470

UniProt ID: [Q9ES71](#)

Cytogenetics: 19q12

MW: 77.1 kDa

Gene Summary: catalyzes the transesterification of dihydroxyacetone phosphate (DHAP) to form acyl-DHAP by utilizing long-chain acyl coenzyme As (CoAs) as acyl donors involved in plasmalogen biosynthesis [RGD, Feb 2006]