

Product datasheet for **RN204007**

Gnpat (NM_053410) Rat Untagged Clone

Product data:

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



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Fully Sequenced ORF: >RN204007 representing NM_053410
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGACGTTCTAGCTCCTCCAGCTCCCGATTCTCGGTCGGCTCTGCCAGCCCTAGCAGTGTCTCTCT
 ATGCGAAAGACCTCAAAAAGTGGGATGAGTTGAAGACCTGTTGGAGGAGAGGAGACAGGTCAAGTATTT
 CAAATTTGCAATGAAGTCTACACACCACCTTGTATAGAGGAATTAAGTCCCTGCAAGCCAAAGTATATC
 AAGTCCATCGTTCTCAATTCTGAAGAGATTAAGTATGTCATTAAGCAGCTTTCCAGGGAGTCCCTGACGG
 GTGTGGATGTGCTCAGAGAAGAGGCCAATGAGATCCTGGAGGAAATGAGTCACAACTGCGTATAGGAGC
 CATTGCGTTCTTTGCCTTTGTTCTGAGCAAAGTTTTAAACAGATCTTCTCAAAGGTGTGTGTAATGAA
 GAAGGCATTCAAAGCTACAACGAGCGATCCAGGAGCACCCCGTATCCTGCTGCCAGCCACCGGAGCT
 ACATCGACTTCTCATGTGTCTTTGTCCTCTACAATATGACCTGCCCGTCCCGGTGATCGCAGCAGG
 GATGGACTTCTGGGAATGCGAGTGGTGAAGCAGCTGCTCAGGATGTCTGGGGCCTTCTTCATGCGACGT
 ACTTTTGGAGGAAATAAGCTCTACTGGGCGTATTCTCGGAATACGTGAAGACCATGCTACGGAGTGGTT
 ATGCTCCTGTTGAATTTTCTCGAAGGACAAGGAGTCCAGCTGCCAAGACCTTGACTCCTAAATTCGG
 TCTCCTGAATATTGTGATGGAACCATTTTTTAAAAGAGAAGTTTTTGATACCTACTTTGTCCCAATTAGC
 ATCAGTTATGATAAAATATTGGAAGAAAGTCTTTATGCGTATGAGCTCCTAGGAATCCCTAAGCCAAAGG
 AATCCACTACCGGACTGTTGAAAGCTAGACGGATTCTCTCTGAGAAGTGGAAAGTATCCATGTGACTT
 TGGAGACCCTGTGCTACTGCGCTCTAGCTGCAGGGCGGCTCAGTCGGAACACGTATAAAGTGGTGCCA
 AGGTGCATCCCTCAGAAGCAGCTGAGGATGTGCAAGCCTTTGCTACTGAAGTTGCCTATAAGATGCAGC
 TTTTGCAAATGAAAACCTGGCTCTGAGCCCATGGCTTCTGGTAGTTGCCATTCTGCTTCAGAACCAGCT
 GTGCATGGACTTCGATGCCCTGGTGGAAAAGACTCTGTGGCTGAAGGGCTTAACGCAGGTGTTGGAGGG
 TTCTGCTTTGGCCTGATAACAACTTCTGAGGAAGTGGTCCAGTCCAGTCCAGTCCCTGCACTCTAACC
 TGGCCACCCTTGTCAAAGACCAGGTGGTTCTGAAAGTGGACTCTGAAAGCTCACAGATGGTCAACGGGCT
 TGTGCCCAACACATTGCCTTCTCATGTGCTCGGCGTACAGGAACCAGCTGCTCAACGTGTTGGCCGT
 CCTTCCCTAGTAGCTGTGGCTTTGCACATGACTCCTGGGCTCAGGAAAGAGGATGTCTTCAGTTGCTTTT
 CCTTCCCTCGCAACGTGTTTTAGATGAGTTCATCTTCTCCAGGAAACACACTCAGGGACTTTGAGGA
 AGGCTGTACTTGTGTAAAAGTGGGTTATGCAGATGACTGGGAAGGACATCATCTCACAGACAAA
 GGAATGTGTATTACAGTTCCTCACAGGACTCTTAAACCTTTGTGGAATCGTATCAGATACTTTCCA
 AATGCCTCTTGCATGAAGAGGACTACTTCAGTGAAGAGGACTTGGTACAGCCAGGAAGTTCACCCG
 CCAGCTTCTGGATCAAGATGCCTCTCAGTGTACGACGCGCTGTCTGAACTTCAAGAAGTGCCTTA
 GCAGCCTTCGTGAGACTCGGGTGGTAGAAAAGAATAAGGTAGACAGTAAATATGTGATTATGTCAACG
 GGCTGCCACAAGCAAGTTAGAAGAAATGCTCGGATGTAAGAAGCCAATAGGAAAACCAGCCACTGCAAA
 ACTTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_053410
- Insert Size:** 2037 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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

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]