

Product datasheet for **RN210394**

Gfpt1 (NM_001005879) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gfpt1 (NM_001005879) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gfpt1
Synonyms:	GFA; GFAT; GFAT1; GFAT1m; Gfpt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN210394 representing NM_001005879
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGTGGTATATTTGCTTATTTAAATTACCATGTTCTCGAACAAAGACGAGAAATCTTGGAGACATTAA
 TCAAAGGCCTTCAGAGATTGGAGTACAGAGGATATGATTCTGCTGGTGTGGGACTTGACGGAGGCAATGA
 CAAAGACTGGGAAGCAACGCTGCAAAAATCCAGCTCATCAAGAAGAAAGGAAAAGTTAAGGCTCTGGAT
 GAAGAAGTTCACAAACAACAAGATATGGACTTGGATATAGAATTTGATGTGCATCTTGGAAATAGCTCATA
 CCCGTTGGGCGACACATGGAGAACCCTAGCCCTGTCAATAGTACCCCCAGCGCTCTGATAAAAAAACA
 ATTCATCGTTATTCATAATGGAATCATCACCACTACAAAGACTTGAAAAAGTTTCTGGAAGCAAAGGC
 TATGACTTTGAATCTGAAACAGACACAGAGACCATCGTAAGCTAGTCAAGTACATGTATGACAACCTGGG
 AAAGCCAGGACGTCAGTTTTACTACCTTGGTGGAGAGAGTTATCCAGCAATTGGAAGGCCCTTTGCTCT
 TGTGTTTTAAAAGTGTCCATTTCCGGGGCAAGCAGTTGGCACAAGGCGAGGTAGCCCTCTCTTGATTGGT
 GTGCGGAGCGAACATAAGCTTTCTACAGATCACATTCCGATTCTGTACAGAACAGGCAAAGACAAGAAAG
 GAAGCTGTGGTCTTTCCCGAGTGGACAGCACGACATGCCTTTCCCTGTTGAGGAAAAGGCGGTTGAATA
 TTAATTTGCTTCTGATGCAAGTGCCGTGATAGAGCACACCAATCGTGTCACTTTCTGGAGGATGATGAT
 GTTGACGCGGTGGTGGACGGCCGCTCTCGATCCACCGAATTAACCGACTGCAAGGGACCACCTGGCC
 GAGCAGTGCAAACCTCCAGATGGAACCTCAGCAGATCATGAAGGGCAACTTTAGTTCATTTATGCAGAA
 GGAAATTTTGGAGCCAGAACTCTGTTGTGAACAAATGAGAGGAAGAGTCAATTTTATGACTACACT
 GTGAACCTGGGAGGTCTGAAAGACCACATTAAGGAGATCCAGCGGTGTCGGCGGTTGATTCTGATTGCTT
 GTGGCACAAGTTACCACGCTGGTATGGCAACCCGTCAGGTCCTAGAGGAGCTGACAGAGTTACCAGTGT
 GGTGGAGCTTGCCAGCGACTTCTGGATAGAAACACTCCAGTCTTCCGAGATGATGTTTGTCTTTTCATC
 AGTCAATCAGGCGAGACAGCTGACACCCTGATGGGTCTTCGCTACTGTAAGGAGAGAGGACCTTAAGT
 TGGGGATTACAAATACTGTGCGCAGTTCGATATCACGGGAGACAGATTGTGGGTTTCAATCAATGCTGG
 TCCTGAGATCGGCGTGGCCAGTACAAAGGCTTACACCAGCCAGTTCGTGTCCCTTGTGATGTTTGCCTC
 ATGATGTGTGATGACAGAATCTCCATGCAAGAAAGACGCAAGAGATCATGCTGGGACTGAAGCGACTGC
 CGGACTTGATTAAGGAAGTGTGAGCATGGATGATGAAATTCAGAAGCTGGCGACAGAGCTTTACCACCA
 GAAGTCGGTCTGATAATGGGCCGAGGCTATCATTATGCTACATGTCTTGAAGGACCCCTGAAAAACAAG
 GAGATTACATATATGCATTCTGAAGGCATCCTTGTGCTGAGCTAAAACACGGCCCTCTGGCCTTGGTGG
 ACAAGTTGATGCCTGTCATCATGATCATCATGCGAGACCACACTTACGCCAAGTGCCAGAATGCTCTTCA
 GCAAGTCGTTGCACGGCAGGGGCGTCCAGTCGTGATCTGTGATAAGGAGGATACTGAGACCATTAAGAAT
 ACAAAAAGGACAAATCAAGGTGCCCACTCAGTGGACTGCTTGCAGGGCATTCTCAGCGTGTATCCCTTAC
 AGCTGCTGGCCTTCCATCTGGCTGTGCTGAGAGGCTACGATGTCGATTTCCACGGAAATCTTGCCAAATC
 TGAACCGTAGAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001005879
- Insert Size:** 2046 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_001005879.1](#), [NP_001005879.1](#)

RefSeq Size: 2285 bp

RefSeq ORF: 2046 bp

Locus ID: 297417

UniProt ID: [P82808](#)

Cytogenetics: 4q34

Gene Summary: Controls the flux of glucose into the hexosamine pathway. Most likely involved in regulating the availability of precursors for N- and O-linked glycosylation of proteins. Regulates the circadian expression of clock genes ARNTL/BMAL1 and CRY1.[UniProtKB/Swiss-Prot Function]