

Product datasheet for **RR210394**

Gfpt1 (NM_001005879) Rat Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide
Sequence:

>RR210394 representing NM_001005879
Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >RR210394 representing NM_001005879
 Red=Cloning site Green=Tags(s)

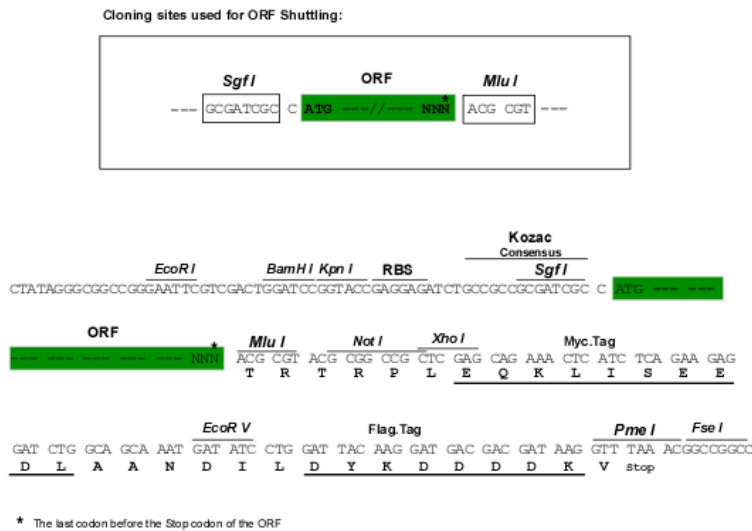
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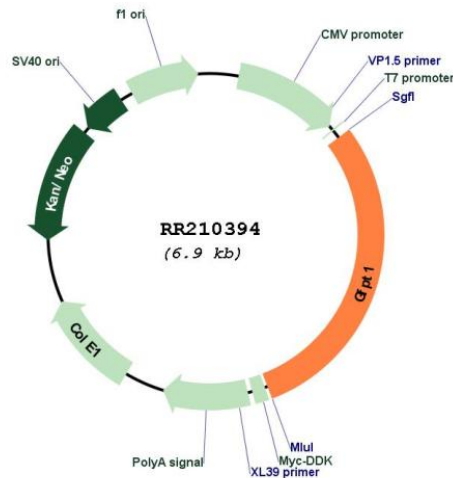
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Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001005879

ORF Size: 2043 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_001005879.1](#), [NP_001005879.1](#)

RefSeq Size: 2285 bp

RefSeq ORF: 2046 bp

Locus ID: 297417

UniProt ID: [P82808](#)

Cytogenetics: 4q34

MW: 76.8 kDa

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]