

Product datasheet for **MR210009**

Gfpt2 (NM_013529) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gfpt2 (NM_013529) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gfpt2
Synonyms:	A1480523; GFAT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210009 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGCGGAATCTTTCCTACATGAATTACAGAGTCCCAAGACAAGAAAGAGATTTTCGAAACCTTA
TCAGGGTCTGCAGCGGCTGGAGTACCGGGCTATGACTCTGCGGGGTTGCCATTGATGGGAATAACCA
CGAAGTCAAAGAAAGACACATCCATCTTGTGAAGAAAAGGGGAAAGTAAAGGCTCTGGATGAAGAATT
TACAAGCAAGATAGCATGGACTTGAAGGTGGAGTTGAGACACACTTCGGCATTGCCACACACGTTGGG
CCACCCACGGGGTCCCAATGCTGTCAACAGTCAACCGCAGCGTTCGGACAAAGACAATGAATTTGTTGT
CATCCACAACGGGATCATCACTAATTACAAGGATCTAAGGAAGTTTCTGGAAAGCAAAGGCTACGAGTTT
GAGTCAGAAACAGACACGGAGACCATCGCCAAGCTGATTAATATGTATTTGACAACAGAGAGACTGAGG
ACATAACGTTTTCCACATTGGTCGAAAGAGTCATTGAGCAGTTGGAAGGGCCTTTGCACTGTTTTCAA
GAGTATCACTACCCGGGAGAAGCTGTCCGACGAGGAGAGGCAGCCCTTGCTCATCGGGTACGAAGC
AAATACAAACTCTCCACAGAGCAGATCCCGTCTTATATCCGACATGCAATATCGAGAATGTGAAGAATA
TCTGCAAGACTAGGATGAAGAGACTGGACAGCTCCACCTGCCTGCACGCTGTGGGCGATAAAGCTGTGGA
ATTCTTCTTGTCTGATGCAAGTGCCATCATAGAACACACCAACCGGGTCACTTCTTGAAGATGAT
GATATCGCTGCAGTGGCTGATGGAAACTCTCCATTCACCGAGTCAAGCGCTCAGCTACTGATGACCCCT
CCCAGCCATCCAGACCTTGAGATGGAAGTGCAGCAAATAATGAAAGGTAACCTCAGCGCATTTATGCA
GAAGGAGATCTTCGAGCAGCCAGAATCAGTTTTAATACCATGAGAGTGGGTGAATTTTGAAGCAAC
ACAGTGTCTCTGGGTGGCTTGAAGGACATTTGAAAGAGATCCGACGATGCCGAAGGCTCATTGTGATTG
GCTGTGGAACAGCTACCATGCCGCTGTGGCTACACGGCAAGTCTTAGAGGAAGTACCGAGCTGCCTGT
GATGGTTGAACTTGCCAGTGACTTTCTGGACAGGAACACACCTGTGTTCAGGGATGACGTTTCTTTTC
ATAAGCCAATCAGGTGAGACTGCAGACAGCTCCTGGCGCTGCGATACTGTAAGGATCGAGGTGCGCTGA
CCGTGGGCATCACCAACACCGTGGGTAGCTCCATCTCCCGGGAGACTGACTGTGGCGTCCACATCAACGC
AGGGCCCAGATTGGGTGGCCAGCACCAAGGCGTACACCAGCCAGTTCATCTCTCTGGTGTGTTGGT
TTGATGATGTCTGAAGATCGAATTTCTCTACAGAACAGGAGACAAGAGATCATCCGTGCCCTCAGATCTT
TACCGGAGCTGATCAAAGAAGTGTGTCCCTGGATGAGAAGATCCATGACTTGGCCCTGGAGCTCTACAC
ACAAAGGTCTCTCTCGTGTGGACGGGGATATAACTATGCCACATGTCTGGAAGGTGCCTTGAAATTT
AAGGAGATAACCTACATGCATTCAGAAGGTATCCTAGCCGGAGAGCTGAAGCACGGGCCCTTGCTCTCG
TCGACAAGCAGATGCCAGTCATCATGGTATCATGAAGGATCCTTGCTTTGCCAAGTGCCAGAATGCCCT
GCAGCAGGTCACTGCCCGCCAGGGTCGCCCAATCATACTGTGTTCCAAGGATGACACCGAGAGCTCCAAG
TTTGATATAAAACCATGAACTTCCCCACACAGTGGACTGTCTCCAGGGTATCCTGAGCGTGATCCAC
TCCAGTCTGTCTCCACCTGGCTGTCTCCGAGGTTATGATGTTGACTTCCCAGAAACCTAGCCAA
GTCTGTCACTGTGGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210009 protein sequence
Red=Cloning site Green=Tags(s)

MCGIFAYMNYRVPKTRKEIFETLIRGLQRLEYRGYDSAGVAIDGNNHEVKERHIHLVKKRGKVKALDEEL
 YKQDSMDLKVEFETHFGIAHTRWATHGVPNAVNSHPQRSDDKNEFVVIHNGIITNYKDLRKFLESKGYEF
 ESETDTETIAKLIKVFVFNRETDITFSTLVERVIQQLEGAFALVFKSIHYPGEAVATRRGSPLLIGVRS
 KYKLSTEQIPVL YPTCNIEVKNICKTRMKRLDSSTCLHAVGDKAVEFFASDASAIIEHTNRVIFLEDD
 DIAAVADGKLSIHRVKRSATDDPSRAIQTLQEMELQQIMKGNFSAFMQKEIFEQPEVFNTRGRVNFETN
 TVLLGGLKDHLKEIRRCRRLIVIGCGTSYHAAVATRQVLEEL TELPVMVELASDFLDRNTPVFRDDVCF
 ISQSGETADTLLALRYCKDRGALTVGITNTVGSSISRETDCGVHINAGPEIGVASTKAYTSQFISLVMFG
 LMMSEDRI SLQNRQEIIRGLRSLPEL I KEVLSLDEKIHDLALELYTQRSLVMGRGNYATCLEGALKI
 KEITYMHSEGILAGELKHGPLALVDKQMPVIMVIMKDPCKFAKQNALQQVTARQGRPIILCSKDDTESSK
 FAYKTIELPHTVDCLQGILSVIPLQLLSFHLAVLRGYDVDFPRNLAKSVTVE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_013529

ORF Size: 2049 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_013529.3](#)

RefSeq Size: 2986 bp

RefSeq ORF: 2049 bp

Locus ID: 14584

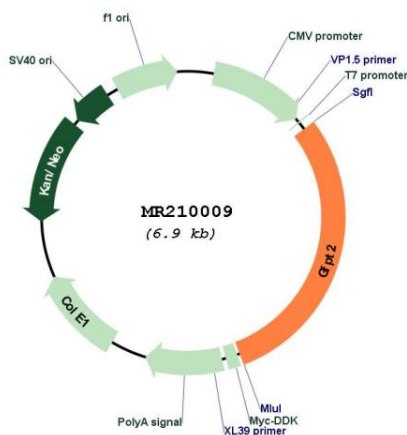
UniProt ID: [Q9Z2Z9](#)

Cytogenetics: 11 29.9 cM

MW: 77 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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210009