

Product datasheet for **MG210009**

Gfpt2 (NM_013529) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gfpt2 (NM_013529) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gfpt2
Synonyms:	A1480523; GFAT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210009 representing NM_013529
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTGCGGAATCTTTGCCTACATGAATTACAGAGTCCCAAGACAAGAAAGAGATTTTCGAAACCTTA
TCAGGGGTCTGCAGCGGCTGGAGTACCGGGCTATGACTCTGCGGGGTTGCCATTGATGGGAATAACCA
CGAAGTCAAAGAAAGACACATCCATCTTGTGAAGAAAAGGGGAAAGTAAAGGCTCTGGATGAAGAATT
TACAAGCAAGATAGCATGGACTTGAAGGTGGAGTTTGGAGACACTTCGGCATTGCCACACACGTTGGG
CCACCCACGGGGTCCCAATGCTGTCAACAGTCAACCGCAGCGTTCGGACAAAGACAATGAATTTGTTGT
CATCCACAACGGGATCATCACTAATTACAAGGATCTAAGGAAGTTTCTGGAAAGCAAAGGCTACGAGTTT
GAGTCAGAAACAGACACGGAGACCATCGCCAAGCTGATTAATATGTATTTGACAACAGAGAGACTGAGG
ACATAACGTTTTCCACATTGGTCGAAAGAGTCATTGAGCAGTTGGAAGGGCGCTTTGCACTGTTTTCAA
GAGTATCACTACCCGGGAGAAGCTGTCCGACGAGGAGAGGCAGCCCTTGCTCATCGGGTACGAAGC
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TCTGCAAGACTAGGATGAAGAGACTGGACAGCTCCACCTGCCTGCACGCTGTGGGCGATAAAGCTGTGGA
ATTCTTCTTGTCTGATGCAAGTGCCATCATAGAACACACCAACCGGGTCACTTCTTGAAGATGAT
GATATCGCTGCAGTGGCTGATGGGAACTCTCCATTCACCGAGTCAAGCGCTCAGCTACTGATGACCCCT
CCCAGCCATCCAGACCTTGAGATGGAAGTGCAGCAAATAATGAAAGGTAACCTCAGCGCATTTATGCA
GAAGGAGATCTTCGAGCAGCCAGAATCAGTTTTAATACCATGAGAGGTGGGTGAATTTTGGAGCAAC
ACAGTGTCTCTGGGTGGCTTGAAGGACATTTGAAAGAGATCCGACGATGCCGAAGGCTCATTGTGATTG
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ATAAGCCAATCAGGTGAGACTGCAGACAGCTCCTGGCGCTGCGATACTGTAAGGATCGAGGTGCGCTGA
CCGTGGGCATCACCAACACCGTGGGTAGCTCCATCTCCCGGGAGACTGACTGTGGCGTCCACATCAACGC
AGGGCCCAGATTGGGTGGCCAGCACCAAGGCGTACACCAGCCAGTTCATCTCTCTGGTGTGTTGGT
TTGATGATGTCTGAAGATCGAATTTCTCTACAGAACAGGAGACAAGAGATCATCCGTGGCCTCAGATCTT
TACCGGAGCTGATCAAAGAAGTGTGTCCCTGGATGAGAAGATCCATGACTTGGCCCTGGAGCTCTACAC
ACAAAGGTCTCTCTCGTGTGGACGGGGATATAACTATGCCACATGTCTGGAAGGTGCCTTGAAATTT
AAGGAGATAACCTACATGCATTCAGAAGGTATCCTAGCCGGAGAGCTGAAGCACGGGCCCTTGCTCTCG
TCGACAAGCAGATGCCAGTCATCATGGTCATCATGAAGGATCCTTGCTTTGCCAAGTGCCAGAATGCCCT
GCAGCAGGTCACTGCCCGCCAGGTCGCCCAATCATACTGTGTTCCAAGGATGACACCGAGAGCTCCAAG
TTTGATATAAAAACCATGAACTTCCCCACACAGTGGACTGTCTCCAGGGTATCCTGAGCGTGATTCCAC
TCCAGTCTGTCTTCCACCTGGCTGTCTCCGAGGTTATGATGTTGACTTCCCAGAAACCTAGCCAA
GTCTGTCACTGTGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210009 representing NM_013529
 Red=Cloning site Green=Tags(s)

MCGIFAYMNYRVPKTRKEIFETLIRGLQRLEYRGYDSAGVAIDGNNHEVKERHIHLVKKRGKVKALDEEL
 YKQDSMDLKVEFETHFGIAHTRWATHGVPNAVNSHPQRSKDNFVVIHNGIITNYKDLRKFLSKGYEF
 ESETDTETIAKLIKVFNDRETDITFSTLVERVIQQLEGAFALVFKSIHYPGEAVATRRGSPLLIQVRS
 KYKLSTEQIPVLYPTCNIEVKNICKTRMKRLDSSTCLHAVGDKAVEFFASDASAIIEHTNRVIFLEDD
 DIAAVADGKLSIHRVKRSATDDPSRAIQTLQMEQQIMKGNFSAFMQKEIFEQPEVFNTRGRVNFETN
 TVLLGGLKDHLKEIRRCRRLIVIGCGTSYHAAVATRQVLEELTELPVMVELASDFLDRNTPVFRDDVCF
 ISQSGETADTLLALRYCKDRGALTVGITNTVGSSISRETDCGVHINAGPEIGVASTKAYTSQFISLVMFG
 LMMSEDRI SLQNRQEIIRGLRSLPEL I KEVLSLDEKIHDLALELYTQRSLVMGRGNYATCLEGALKI
 KEITYMHSEGILAGELKHGPLALVDKQMPVIMVIMKDPCKFAKQNALQQVTARQGRPIILCSKDDTESSK
 FAYKTIELPHTVDCLQGILSVIPLQLLSFHLAVLRGYDVFPRNLAKSVTVE

TRTRPLE - GFP Tag - V

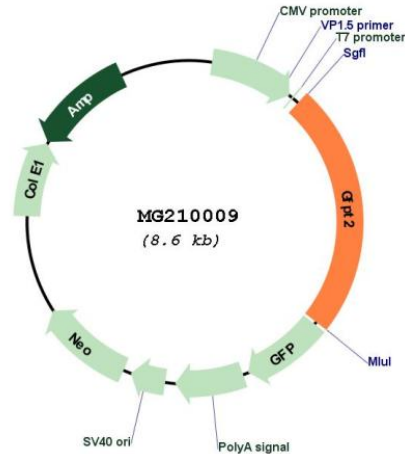
Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_013529

ORF Size: 2046 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: 2958 bp

RefSeq ORF: 2049 bp
Locus ID: 14584
UniProt ID: [Q9Z2Z9](#)
Cytogenetics: 11 29.9 cM
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]