

Product datasheet for **SC321384**

GFPT2 (NM_005110) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GFPT2 (NM_005110) Human Untagged Clone
Tag:	Tag Free
Symbol:	GFPT2
Synonyms:	GFAT; GFAT 2; GFAT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_005110.1
GCGGAGCCCACGGAGCCCACGGAGCCCACGGAGGAGCCCACGGAGGAGCCCACGGTCCG
AACGGGCAGACCCCTCGAGCCGGAAGGAGCCGAGAAGCAGCCACGATGTGCGGAATC
TTTGCCTACATGAACTACAGAGTCCCCCGACGAGGAAGGAGATCTTCGAAACCCATC
AAGGGCCTGCAGCGGCTGGAGTACAGAGGCTACGACTCGGCAGGTGTGGCGATCGATGGG
AATAATCACAAGTCAAAGAAAGACACATTAGCTGGTCAAGAAAAGGGGAAAGTCAAG
GCTCTCGATGAAGAACTTACAACAAGACAGCATGGACTTAAAAGTGGAGTTTGAGACA
CACTTCGGCATTGCCACACGCGCTGGGCCACCCACGGGGTCCCCAGTGTCAACAGC
CACCTCAGCGCTCAGACAAAGGCAACGAATTTGTTGTCATCCACAATGGGATCATCACA
AATTACAAGATCTGAGGAAATTTCTGAAAGCAAAGGCTACGAGTTGAGTCAGAAACA
GATACAGAGACCATCGCCAAGCTGATTAATATGTGTTGACAACAGAGAACTGAGGAC
ATTACGTTTTCAACGTTGGTCGAGAGAGTCATTACGAGTTGGAAGGTGCATTGCGGCTG
GTTTTCAAGAGTGTCCACTACCCAGGAGAAGCCGTTGCCACACGGAGAGGCGCCCTG
CTCATCGGAGTCCGGAGCAAATACAAGCTCTCCACAGAACAGATCCCTATCTTATACAGG
ACGTGCACTCTGGAGAATGTGAAGAATATCTGTAAAGACACGGATGAAGAGGCTGGACAGC
TCCGCCTGCCTGCATGCTGTGGGCGACAAGGCCGTGGAATTTCTTTGCTTCTGATGCA
AGCGCTATCATAGAGCACACCAACCGGGTCATCTTCTGGAGGACGATGACATCGCCGCA
GTGGCTGATGGGAACTCTCCATTACCGGGTCAAGCGCTCGGCCAGTGTGACCCATCT
CGAGCCATCCAGACCTTGAGATGGAAGTGCAGCAAATCATGAAAGGTAACCTCAGTGCG
TTTATGCAGAAGGAGATCTTGAACAGCCAGAATCAATTTCAATACTATGAGAGGTCGG
GTGAATTTTGAACCAACACAGTGTCTCCTGGGTGGCTTGAAGGACCACTTGAAGGAGATT
CGACGATGCCACGGCTCATCGTGATTGGCTGTGGAACAGCTACCACGCTGCCGTGGCT
ACGCGCAAGTTTTGGAGGAACTGACTGAGCTTCTGTGATGGTTGAACTTGCTAGTGAT
TTTCTGGACAGGAACACACCTGTGTTCCAGGGATGACGTTTGTCTTTTTCATCAGCCAGTCA
GGCGAGACCGGACACCCTCCTGGCGCTGCGCTACTGTAAGGACCGGCGCTCTCACC
GTGGGCGTCACCAACACCGTGGGCGCTCCATCTCTCGGAGACCGACTGCGGCGTCCAC
ATCAACGCAGGGCCGGAGGTCGGCGTGGCCAGCACCAAGGCTTATACCAGTCAGTTCATC



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TCTCTGGTGATGTTTGGTTTGGTGTCTGAAGACCGAATTTACTACAAAACAGGAGG
 CAAGAGATCATCCGTGGCTTGAGATCTTTACCTGAGCTGATCAAGGAAGTGTCTCTG
 GAGGAGAAGATCCACGACTTGGCCCTGGAGCTCTACACGCAGAGATCGTGCTGGTGATG
 GGGCGGGCTACAACATATGCCACCTGCCTGGAAGGAGCCCTGAAAATTAAGAGATAACC
 TACATGCACTCAGAAGGCATCCTGGCTGGGAGCTGAAGCACGGGCCCTGGCACTGATT
 GACAAGCAGATGCCCGTCATCATGGTCATTATGAAGGATCCTTGCTTCGCCAAATGCCAG
 AACGCCCTGCAGCAAGTACGGCCCGCCAGGGTCGCCCAATTATACTGTGCTCCAAGGAC
 GATACTGAAAGTTCCAAGTTTGGGTATAAGACAATCGAGCTGCCACACTGTGGACTGC
 CTCAGGGCATCCTGAGCGTGATTCCGCTGCAGCTGCTGTCTTCCACCTGGCTGTTCTC
 CGAGGATATGACGTTGACTTCCCCAGAAAATCTGGCCAAGTCTGTAAGTGTGGAATGAGGC
 TGAGACCGTGACAAGACCATCACACCTTTTCTGATTCCAGACCTGTCCCAACAGCAG
 GGATGCTACATGGGAAGAGAAGTGGACATCCACATGTTCTGCGTGCTCCTGTAGAGCTT
 GACAGCTTCCACGTGCCTTCTACCCAAGTGCTTTTGTCTACAGCAGATACTGTTTCTCTG
 TGTCTGAAGTCGCCAGAGGAGAAGGGAATCATTGTTTACACATGGGGATCAGAGCAGAC
 TTCTCCACTACTGTGCAATAGAGATACAGCTCTTTCAGAGTAACTGTGAACCTTTTATA
 ACCAACACTAGAGTTAGTTTTAAAAGACAAGATATTTATAATGACGACTGTATAGCTTTT
 AAGTTATTTTTCTAGTATGTGGCTTTCTGTAGCCGTGGTAACGGCCAAACTGTTCACTCT
 AGCTACCCATGCTCTGTGTCCAGGCTTGCTCCTGGCAGGTGGCATTATCTCAGATGTGA
 GCACAAGGCATTGGCCCTCTGGACTCCTTTCTCCTTTTCTTCTCTCTAGGCTGCTCCT
 GAATCCTGTTCTCTGACATCCGTGGAGCCCTCCTGCATCCACCTATGCCTCCTATAAGT
 CCAATTGAAATCTCAGCCTCCTTCAACATTTTCTTCTCGTGTGTGGCCACATCCCTCCA
 CTTCTCCAACCTTCTGTTAATCTGATCACGGCTCTTTTAAAGCCCTGGCAGCATTTTGGT
 CCCTGCTCCTTGCCCATAGTAAACAGCTTGAATATCCCATGCAAGAGAGTAGTTTCAA
 GTGGGCAACTCTGCTCTCTATTTAAAAGCGTGCAACAATCAAAGTACTATGCAATTTTAG
 GACAATAAAGAACATACAGTTTTTTTTGTGTGAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_005110
- Insert Size:** 3000 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_005110.1](#), [NP_005101.1](#)

RefSeq Size:	3014 bp
RefSeq ORF:	2049 bp
Locus ID:	9945
UniProt ID:	<u>O94808</u>
Cytogenetics:	5q35.3
Domains:	GATase_2, SIS
Protein Families:	Protease
Protein Pathways:	Alanine, aspartate and glutamate metabolism, Amino sugar and nucleotide sugar metabolism, Metabolic pathways
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]