

Product datasheet for **SC333281**

GFPT1 (NM_002056) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GFPT1 (NM_002056) Human Untagged Clone
Tag:	Tag Free
Symbol:	GFPT1
Synonyms:	CMS12; CMSTA1; GFA; GFAT; GFAT 1; GFAT1; GFAT1m; GFPT; GFPT1L; MSLG
Vector:	pCMV6-Entry (PS100001)

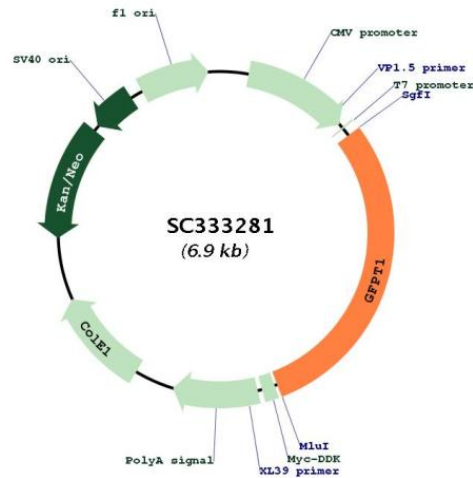


[View online »](#)

Fully Sequenced ORF: >SC333281 representing NM_002056.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGTGTGGTATATTTGCTTACTTAAACTACCATGTTCTCGAACGAGACGAGAAATCCTGGAGACCCTA
ATCAAAGGCCTTCAGAGACTGGAGTACAGAGGATATGATTCTGCTGGTGTGGGATTTGATGGAGGCAAT
GATAAAGATTGGGAAGCCAATGCCTGCAAAATCCAGCTTATTAAGAAGAAAAGAAAAGTTAAGGCACTG
GATGAAGAAGTTCACAAGCAACAAGATATGGATTTGGATATAGAATTTGATGTACACCTTGGAAATAGCT
CATACCCGTTGGGCAACACATGGAGAACCAGTCTGTCAATAGCCACCCCGAGCGCTCTGATAAAAAT
AATGAATTTATCGTTATTCACAATGGAATCATACCAACTACAAAGACTTGAAAAAGTTTTTGGAAAGC
AAAGGCTATGACTTCGAATCTGAAACAGACACAGAGACAATTGCCAAGCTCGTTAAGTATATGTATGAC
AATCGGAAAAGTCAAGATACCAGCTTTACTACCTTGGTGGAGAGAGTTATCCAACAATTGGAAGGTGCT
TTTGCCTTGTGTTTAAAAGTGTTCATTTTCCCGGCAAGCAGTTGGCACAAGGCGAGGTAGCCCTCTG
TTGATTGGTGTACGGAGTGAACATAAATTTCTACTGATCACATTCTATACTCTACAGAACAGGCAAAA
GACAAGAAAGGAAGCTGCAATCTCTCTCGTGTGGACAGCACAACTGCCTTTTCCCGGTGGAAGAAAAA
GCAGTGGAGTATTACTTTGCTTCTGATGCAAGTGTGTCATAGAACACACCAATCGCGTCATCTTTCTG
GAAGATGATGATGTTGCAGCAGTGTGGATGGAGTCTTTCTATCCATCGAATTAACGAACTGCAGGA
GATCACCCCGGACGAGCTGTGCAAACTCCAGATGGAATCCAGCAGATCATGAAGGGCAACTTCAGT
TCATTTATGCAGAAGGAAATATTTGAGCAGCCAGAGTCTGTGCGTGAACACAATGAGAGGAAGAGTCAAC
TTTGATGACTATACTGTGAATTTGGGTGGTTTGAAGGATCACATAAAGGAGATCCAGAGATGCCGGCGT
TTGATTCTTATTGCTTGTGGAACAAGTTACCATGCTGGTGTAGCAACACGTCAAGTTCTTGAGGAGCTG
ACTGAGTTGCCTGTGATGGTGGAACTAGCAAGTGAATTCCTGGACAGAAACACACCAGTCTTTGAGAT
GATGTTTGCTTTTTCCTTAGTCAATCAGGTGAGACAGCAGATACTTTGATGGGTCTTCGTTACTGTAAG
GAGAGAGGAGCTTAACTGTGGGGATCACAAACACAGTTGGCAGTTCCATATCACGGGAGACAGATTGT
GGAGTTCATATTAATGCTGGTCTGAGATTGGTGTGGCCAGTACAAAGGCTTATACCAGCCAGTTTGTA
TCCTTGTGATGTTTGCCTTATGATGTGTGATGATCGGATCTCCATGCAAGAAAGACGCAAGAGATC
ATGCTTGGATTGAAACGGCTGCCTGATTTGATTAAGGAAGTACTGAGCATGGATGACGAAATTCAGAAA
CTAGCAACAGAACTTTATCATCAGAAGTCAAGTCTGATAATGGGACGAGGCTATCATTATGCTACTTGT
CTTGAAGGGGCACTGAAAATCAAAGAAATTAATATGCACTCTGAAGGCATCCTTGCTGGTGAATG
AAACATGGCCCTCTGGCTTTGGTGGATAAATTGATGCCTGTGATCATGATCATGAGAGATCACACT
TATGCCAAGTGCAGAATGCTCTTCAGCAAGTGGTTGCTCGGCAGGGGCGGCCTGTGTAATTTGTGAT
AAGGAGGATACTGAGACCATTAAGAACACAAAAAGAACGATCAAGGTGCCCACTCAGTGGACTGCTTG
CAGGGCATTCTCAGCGTATCCCTTTACAGTTGCTGGCTTCCACCTTGCTGTGCTGAGAGGCTATGAT
GTTGATTTCCACGGAATCTTGCCAAATCTGTGACTGTAGAGTGA
```

Restriction Sites: Sgfl-Mlul

Plasmid Map:


ACCN: NM_002056

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_002056.3](#)

RefSeq Size: 8649 bp

RefSeq ORF: 2046 bp

Locus ID: 2673

UniProt ID: [Q06210](#)

Cytogenetics: 2p13.3

Domains: GATase_2, SIS

Protein Families: Protease

Protein Pathways:	Alanine, aspartate and glutamate metabolism, Amino sugar and nucleotide sugar metabolism, Metabolic pathways
MW:	76.8 kDa
Gene Summary:	<p>This gene encodes the first and rate-limiting enzyme of the hexosamine pathway and controls the flux of glucose into the hexosamine pathway. The product of this gene catalyzes the formation of glucosamine 6-phosphate. [provided by RefSeq, Sep 2008]</p> <p>Transcript Variant: This variant (2) lacks an alternate exon in the coding region, compared to variant 1. The resulting protein (isoform 2) is shorter when it is compared to isoform 1.</p> <p>Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>