

Product datasheet for **SC117706**

FPGT (NM_003838) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FPGT (NM_003838) Human Untagged Clone
Tag:	Tag Free
Symbol:	FPGT
Synonyms:	GFPP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_003838, the custom clone sequence may differ by one or more nucleotides

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ATGCGTGTCTGTGCGGCGGGTCTCAGGGAAGTGGGGCTATGGCAGCTGCTAGGGACCCCTCCGGAAGTAT
CGCTGCGAGAAGCCACCCAGCGAAAATTGCGGAGGTTTTCCGAGCTAAGAGGCAAACCTGTAGCACGTGG
AGAATTCTGGGACATAGTTGCAATAACAGCGGCTGATGAAAAACAGGAACCTGCTTACAACCAACAGCTG
TCAGAAAAGCTGAAAAGAAAGGAGTTACCCCTTGAGTTCAATATCACGTTTTTGTGGATCCTGCTGGAG
CCAAAATTGAAAATGGAGGATCAACACTTTGTGCCCTTCAATGTTTGGAAAAGCTATATGGAGATAAATG
GAATCTTTTACCATCTTATTAATTCACCTGCTGTTGCTACAGTCAACGACTTCCAATGCAAGTGTCTG
GGAAAAATTTTCACTGCTTACCTCTTGGTAACCCCATTTATCAGATGCTAGAATAAAAGTACCCATG
ACATTGATTTCCCTTAAATATGAATCCTGGAATCTGGTTACCTGTGCAGATGATTTGAACCTTATAG
TATTGGAGAATTTGAGTTTATTAGGTTTGACAAACCTGGCTTTACTGCTTTAGCTCATCCTTCTAGTTG
ACGATAGGTACCACACATGGAGTATTTGTCTTAGATCCTTTTGTGATTTAAAACATAGAGACCTTGAAT
ACAGGTCTTGCCATCGTTTCCTTCATAAGCCCAGCATAGAAAAGATGTATCAGTTTAAATGCTGTGTGTA
ACCTGGAATTTTTGTCAACAGGACTTTGCTGGGGGTGACATTGCCGATCTTAAATTAGACTCTGACTAT
GTCTACACAGATAGCCTATTTTATATGGATCATAAATCAGCAAAAATGTTACTTGCTTTTTATGAAAAA
TAGGCACACTGAGCTGTGAAATAGATGCCTATGGTGACTTTTGCAGGCTTTGGGACCTGGAGCAACTGT
GGAGTACACCAGAAACACATCAATGTCATTAAGAAGAGTCAGAGTTGGTAGAAATGAGGCAGAGAATA
TTTCATCTTCTTAAAGGAACATCACTAAATGTTGTTGTTCTTAATAACTCCAAATTTTATCACATTGGAA
CAACCGAAGAATATTTGTTTTACTTTACCTCAGATAACAGTTTAAAGTCAGAGCTCGGCTTACAGTCCAT
AACTTTTAGTATCTTTCCAGATAACAGAAATGCTCTGGCAAAACATCCTGTATCATTCAAAGCATACTG
GATTCAGATGTTCTGTGGCACCTGGCTCAGTTGTGGAGTATCCAGATTGGGGCCTGATGTTTTCAGTTG
GGGAAAACCTGCATTATTAGTGGTTCTTACATCCTAACAAAAGCTGCCCTCCCGCACATTTTGTATG
TTCCTTAAAGCTTAAAGATGAATAGATGCTTAAAGTATGCAACTATGGCATTGGAGTGCAAGACAACCTG
AAAAAGAGTGTGAAAACATTGTGAGATATAAAGTACTTCAATCTTTGGAGTCTGTTTCTGTGATGCT
TAGATGTTTGGAACTTAAAGTTACAGAGGAACCTTCTCTGGTAACAAGACATGTCTGAGTTTGTGGAC
TGCACGCATTTCCAGTTTGTCTTCTTTGAGTGACTCAGTTATAACATCCCTAAAGATGTTAAATGCT
GTTAAGAACAAGTCAGCATTGAGCTGAAAGTATAGCTATAAGTTGCTGTCATTGAAGAAATGCTTATCTACA
AAGATGTAGAAGATATGATAACTTACAGGGAACAAATTTTCTAGAAATCAGTTTAAAAGCAGTTTGTAG
GTAG
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003838 unedited

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TTCGAATTTTGAATACGACTCACTTATAGGGCGGCCGGAATTCGCACGAGGGGAAGT
GGGGCTATGGCAGCTGCTAGGGACCCTCCGGAAGTATCGCTGCGAGAAGCCACCCAGCGA
AAATTGCGGAGGTTTTCCGAGCTAAGAGGCAAACCTGTAGCACGTGGAGAATTCTGGGAC
ATAGTTGCAATAACAGCGGCTGATGAAAAACAGGAACCTGCTTACAACCAACAGCTGTCA
GAAAAGCTGAAAAGAAAGGAGTTACCCCTTGAGTTCAATATCACGTTTTTGTAGATCCT
GCTGGAGCCTAAAATTGGAATGGAGGATCAACACTTTGTGCCCTTCAATGTTTGGAAAAG
CTATATGGAGATAAATGGAATCTTTTACCATCTTATTAATTCACCTGATGAATGGAAG
AAAAAGTCAGTGAATCATATGTTATCACAATAGAAAGATTAGAAGATGACCTGCAGATC
AAGGAAAAAGAACTGACAGAACTAAGGAATATATTTGGCTCTGATGAAGCCTTCAGTAA
GTCAATTTAAATACCGCACTGAAAATGGGCTGTCTCTACTTCATTTATGTTGCATTTGT
GGAGGCAAGAAATCACATATTCGAACTTATGTTGAAAGGGCTCCGCCATCTCGACTG
ACAAGAAATGGATTTACAGCCTTGCATTTAGCAGTTTACAAGGACAAAATATTCCAGTAG
AGTAAGAGGCTTATCAGTTAAATACAGCANAAGTATGTCCTCTCAAGTTTTTCTTGAGA
CTCGATCAGGANAACCACTATGGNAAGTCAGAAGTGAAGTACAGACGTTGGAGTCCACAG
ACCTGGGTTTGCATCTACCTTACACTTACAAGATATGCAGAATGATCACCCCTCTGCTCA
CAGTGGACTGATTACAGCAGGTGNATACGTGGCCTCT
    
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Restriction Sites:

NotI-NotI

ACCN:	NM_003838
Insert Size:	3590 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:	<ol style="list-style-type: none">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_003838.2 , NP_003829.2
RefSeq Size:	3426 bp
RefSeq ORF:	1785 bp
Locus ID:	8790
UniProt ID:	O14772
Cytogenetics:	1p31.1
Protein Pathways:	Amino sugar and nucleotide sugar metabolism, Fructose and mannose metabolism, Metabolic pathways

Gene Summary:

L-fucose is a key sugar in glycoproteins and other complex carbohydrates since it may be involved in many of the functional roles of these macromolecules, such as in cell-cell recognition. The fucosyl donor for these fucosylated oligosaccharides is GDP-beta-L-fucose. There are two alternate pathways for the biosynthesis of GDP-fucose; the major pathway converts GDP-alpha-D-mannose to GDP-beta-L-fucose. The protein encoded by this gene participates in an alternate pathway that is present in certain mammalian tissues, such as liver and kidney, and appears to function as a salvage pathway to reutilize L-fucose arising from the turnover of glycoproteins and glycolipids. This pathway involves the phosphorylation of L-fucose to form beta-L-fucose-1-phosphate, and then condensation of the beta-L-fucose-1-phosphate with GTP by fucose-1-phosphate guanylyltransferase to form GDP-beta-L-fucose. Alternative splicing results in multiple transcript variants. Read-through transcription also exists between this gene and the neighboring downstream TNNI3 interacting kinase (TNNI3K) gene. [provided by RefSeq, Dec 2010]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.