

## Product datasheet for SC118067

### GFUS (NM\_003313) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GFUS (NM_003313) Human Untagged Clone
Tag:	Tag Free
Symbol:	GFUS
Synonyms:	FX; P35B; SDR4E1; TSTA3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118067 sequence for NM_003313 edited (data generated by NextGen Sequencing)

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ATGGGTGAACCCAGGGATCCATGCGGATTCTAGTGACAGGGGGCTCTGGGCTGGTAGGC
AAAGCCATCCAGAAGGTGGTAGCAGATGGAGCTGGACTTCTGGAGAGGACTGGGTGTTT
GTCTCCTCTAAAGACGCCGATCTCACGGATACAGCACAGACCCGCGCCCTGTTTGAGAAG
GTCCAACCCACACACGTATCCATCTTGCTGCAATGGTGGGGGGCCTGTTCCGGAATATC
AAATACAATTTGGACTTCTGGAGGAAAAACGTGCACATGAACGACAACGCTCCTGCACTCG
GCCTTTGAGGTGGGCGCCCGCAAGGTGGTGTCTGCTGTCCACCTGTATCTTCCCTGAC
AAGACGACCTACCCGATAGATGAGACCATGATCCACAATGGGCCTCCCAACAGCAAT
TTTGGTACTCGTATGCCAAGAGGATGATCGACGTGCAGAACAGGGCCTACTTCCAGCAG
TACGGCTGCACCTTACCCTGTGATCCCAACAGTCTTCGGGCCCCACGACAACCTTC
AACATCGAGGATGGCCACGTGCTGCCTGGCCTCATCCACAAGGTGCACCTGGCCAAGAGC
AGCGGCTCGGCCCTGACGGTGTGGGTACAGGGAATCCGCGGAGGCAATTATATACTCG
CTGGACCTGGCCAGCTTTTATCTGGGTCTGCGGGAGTACAATGAAGTGGAGCCCATC
ATCCTCTCCGTGGGCGAGGAAGATGAGGTCTCCATCAAGGAGGCAGCCGAGGCGGTGGT
GAGGCCATGGACTTCCATGGGAAGTACCTTTGATACAACCAAGTGGATGGGCAGTTT
AAGAAGACAGCCAGTAACAGCAAGCTGAGGACCTACCTGCCCCGACTTCCGGTTCACACC
TTCAAGCAGGCGGTGAAGGAGACCTGTGCTTGGTTCACAGCAACTACGAGCAGGCCCGG
AAGTGA

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Clone variation with respect to NM\_003313.3



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_003313 unedited  
 ATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCCGGAGCGCACCCGGCCGGA  
 AGCCGCTGTGGGGAGCCGGCGGTGGGGCTGGACGCAGGTGCAACTGACATGGGTGAACC  
 CCAGGGATCCATGCGGATTCTAGTGACAGGGGGCTCTGGGCTGGTAGGCAAAGCCATCCA  
 GAAGGTGGTAGCAGATGGAGCTGGACTTCTGGAGAGGACTGGGTGTTTGTCTCCTCTAA  
 AGACGCCGATCTCACGGATACAGCACAGACCCCGCCCTGTTTGAGAAGGTCCAACCCAC  
 ACACGTATCCATCTTGCTGCAATGGTGGGGGGCTGTTCCGGAATATCAAATACAATTT  
 GGACTTCTGGAGAAAAACGTGCACATGAACGACAACGTCTGCACTCGGCCTTTGAGGT  
 GGGCGCCCGCAAGGTGGTGTCTGCCTGTCCACCTGTATCTTCCCTGACAAGACGACCTA  
 CCCGATAGATGAGACCATGATCCACAATGGGCCTCCCCACAACAGCAATTTGGGTACTC  
 GTATGCCAAGAGGATGATCGACGTGCAGAACAGGGCTACTTCCAGCAGTACGGTGCAC  
 CTTACCGCTGTCATCCCACCAACGTCTTCGGGCCCCACGACAACCTCAACATCGNAGA  
 TGGCCACGTGCTGCCTGGCTCATCCACAAGGTGCACCTGGCCAAGAGCAGCGGCTCGGC  
 CCTGACGGTNGTGGGTACAGGGATCCGCGGAGGCAGTTCATATACTCGTGGACCTGGC  
 CCAGCTCTTTATCTGGNGTCTGCCGGAGACAATGAAGTGGAGCCATCATCCTTNCGT  
 GGGCGAAGAGATGAAGGTCTCCATCAAGGAGCANNCGANNCGTGGTGGAGCCATGGACT  
 TCATGGGAAGTACCTTGATCCACAGTCGNAGGGCAGTTAGAAGAAGCCGTACAC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_003313 unedited  
 GTACCGCGGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGCCTGTGAAAATGC  
 ACTTTATTGGCTCCCAGGAGTGGGATGCAGGATCAGAGTGGACACGCGCAGGGGGCTGGT  
 GTGGGGAGCAAAGCGCCGGGCTGCCCGGACCCTGGTTTCCCTGAGGACCAACGTGAAA  
 TGGGGGCCCCACTTGAAAAAAGCTTTGGGGCTTAAAAACCGTTGAAATGGCAGG  
 CCCCCACTTCTGGGGGGGGGGCCCCCTCACTTTTTCCACAGGGTTAACAGGGGGG  
 GCGGCCCCCTCTTTCTCTTCCCCCCACCCAGCGGGGTTGCCGGGACCCCCAACT  
 ACTATTTTTTTTTCAAAAAAAACTCACCTCGGCCCCCTCCCCCTCTCATACCAGTCT  
 TACAAACCCACACCAACCAACGTCCTTCTCCTTCTCCCTCGCCGTGGGGGGT  
 GGGGGGTTGTTACAGAGTGTCCCGTCGCGTTTTGTTTTATCTTCTCCACTCCTCTTT  
 TTCTAGCTTCGCTCTTTTTTACATACACTATCCCTCCCTTTACCTCCCCGATCCC  
 ATTCTCTCCTTTCCCTTCCCTACTATGTTCCGTGCGCTCCACCCCTTCTCTTCCAC  
 TCTCCTCCCTACTTCTACATCCACCTCCCTCCTCCCTCCACCCGCTCGCACCCCC  
 CGCTCCCTCCCTTCTTCTCCTTCTTTTCAATTTACATTAATAATCCCATACAAGTAATT  
 AACATGTTTACCTACTTTAGCCATGCTTTCTTACAATACTCCTTCTTTCTTCTCCCAT  
 CCTCAAACCCCCCAACCCACCTCTAATGTGAATAATAATCGCGCCACACGCGCATAAT  
 TGTCAAGATGCGTCCCAAGCCAACACCCACGACTACCAACAACA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_003313

**Insert Size:**

1430 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_003313.2</a> , <a href="#">NP_003304.1</a>
<b>RefSeq Size:</b>	1312 bp
<b>RefSeq ORF:</b>	966 bp
<b>Locus ID:</b>	7264
<b>UniProt ID:</b>	<a href="#">Q13630</a>
<b>Cytogenetics:</b>	8q24.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Amino sugar and nucleotide sugar metabolism, Fructose and mannose metabolism, Metabolic pathways
<b>Gene Summary:</b>	<p>Tissue specific transplantation antigen P35B is a NADP(H)-binding protein. It catalyze the two-step epimerase and the reductase reactions in GDP-D-mannose metabolism, converting GDP-4-keto-6-D-deoxymannose to GDP-L-fucose. GDP-L-fucose is the substrate of several fucosyltransferases involved in the expression of many glycoconjugates, including blood group ABH antigens and developmental adhesion antigens. Mutations in this gene may cause leukocyte adhesion deficiency, type II. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and uses a downstream translation start site compared to variant 1. The encoded isoform (2) has a shorter N-terminus compared to isoform 1.</p>