

## Product datasheet for **RG209884**

### **B3GALTL (B3GLCT) (NM\_194318) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	B3GALTL (B3GLCT) (NM_194318) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	B3GALTL
Synonyms:	B3GALTL; B3Glc-T; B3GTL; beta3Glc-T; Gal-T
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG209884 representing NM\_194318  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCGGCCGCCCGCTGCTGGTGGCTGCTCGCGCCGCCGCGCTGCTCGCGCTCCTCACCTGCTCCCTGG  
 CTTTTGGTTTGGCTTCTGAAGATACAAAGAAAGAGGTCAAGCAGTCTCAGGATTTGGAGAAAAGTGGTAT  
 ATCAAGGAAAAATGACATAGACTTAAAAGAAATTGTATTCGTCATCCAGAGTCAAAGTAATCTTTTCAT  
 GCAAAGAGAGCAGAGCAGTTAAAAAAGCATCTTAAAGCAGGCTGCAGATCTTACACAGGAGCTCCCCA  
 GTGTCTCTCTCTTATCAGCTGGCTAAACAAGAAGGTGCATGGACCATACTTCCGTTGTTACCGCACTT  
 TTCTGTAACATATAGCAGAAATTCATCTTGATTTTCTTCTGTGAAGAAGAGACAAGAATACAGATTCCA  
 AAACCTTGGAAACCCTCAGAAGATATGACCCCTCTAAGGAATGGTTTTTGGGAAAAGCATTACATGATG  
 AAGAAGCTACAATAATTCACCATTATGCCTTTTCCGAGAATCCTACAGTTTTTAAGTATCCAGACTTTGC  
 TGCAGGCTGGGCCTTAAGTATTCAGTTGTAACAAGCTTACCAAGAGACTAAAGAGTGAATCCTTGAAA  
 TCCGACTTTACAATAGATTTAAAACATGAGATTGCCCTTACATCTGGGACAAAGGCGGAGGACCTCCCC  
 TGACCCAGTGCCTGAGTTTTGTACCAATGACGTGGACTTCTACTGTGCTACCACATTCCATTCTTTTCT  
 ACCGCTTTGTAGAAAGCCAGTGAAGAAGAAGGATATTTTTGTTGCAGTAAAAACATGCAAGAAATTCAT  
 GGTGACAGAAATGCCTATTGTTAAGCAGACTTGGGAGAGCCAGGCAAGTCTCATTGAATACTATAGTGACT  
 ATACTGAAAATCCATTCTACTGTGGATTTGGGAATTCCTAATACAGATAGAGGTCAATGTGGAAAAGAC  
 ATTTGCCATTTTGGAAAGATTTCTGAATCGTAGCCAGGACAAAACAGCATGGTTAGTCATTGTGGATGAT  
 GATACATTAATAAGTATCTCCAGGCTCCAGCACTTGTCTAGCTGTTATGACTCCGGCAAGCCTGTGTTTC  
 TGGGAGAGCGCTACGGCTACGGCTGGGCACTGGTGGCTACAGCTACATCACGGGAGGAGGAATGGT  
 CTTCAGCAGAGAAGCCGTCAGGAGACTTCTCGCCAGTAAATGTCGATGCTACAGCAATGATGCTCCCGAT  
 GATATGGTCTGGGAATGTGCTTTAGTGGCTTGGGAATCCCTGTGACACAGCCCTCTCTTCCATCAGG  
 CTCGGCCGGTGGATTACCCTAAGGACTACCTTTCTCATCAAGTCCCATATCGTTCCACAAAACACTGGAA  
 CATCGATCCAGTGAAGGTGATTTACATGGTTGGCACCCAGTGACGAAGACAAAGCCAGGAGGAGACA  
 CAGAAAGGTTTTTCGAGAGGAGTTA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG209884 representing NM\_194318  
 Red=Cloning site Green=Tags(s)

MRPPACWLLAPPALLALLTCSLAFGLASEDTKKEVKQSQDLEKSGISRKNDIDLKGIQVFIQSQNSFH  
 AKRAEQLKKSILKQAADLTQELPSVLLHLQAKQEGAWTILPLLPHFVSVTYSRNSSWIFFCEEETRIQIP  
 KLLLETLLRRYDPSKEWFLGKALHDEEATIIHHYAFSENPTVFKYPDFAAGWALSIPLVNLTKRLKSESLK  
 SDFITDLKHEIALYIWDKGGPPLTPVPEFCTNDVDFYCATTFFHSFLPLCRKPKVKKKIDIFVAVKTKKFFH  
 GDRMPIVKQWESQASLIEYYSYDPTENSIPVDLGPNTDRGHCGKTFAILERFLNRSQDKTAWLVIVDD  
 DTLISISRLQHLLSCYDSGKPVFLGERYGYGLTGGYSYITGGGMVFSREAVRRLASKCRCYSNDAPD  
 DMVLGMCFSGLGIPVTHSPLFHQARPVDPKDYLSHQVPI SFHKHWNIDPVKVVYFTWLAPSEDEKARQET  
 QKGFREEL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_194318

**ORF Size:** 1494 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\\_194318.2](#), [NP\\_919299.2](#)

**RefSeq Size:** 3467 bp

**RefSeq ORF:** 1497 bp

**Locus ID:** 145173

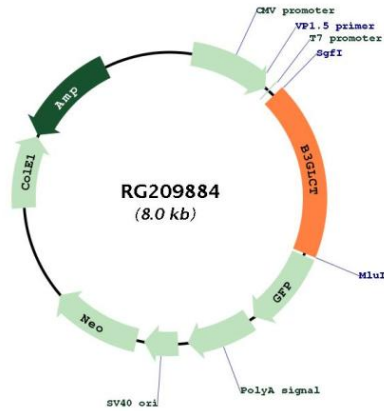
**UniProt ID:** [Q6Y288](#)

**Cytogenetics:** 13q12.3

**Protein Families:** Transmembrane

**Gene Summary:** The protein encoded by this gene is a beta-1,3-glucosyltransferase that transfers glucose to O-linked fucosylglycans on thrombospondin type-1 repeats (TSRs) of several proteins. The encoded protein is a type II membrane protein. Defects in this gene are a cause of Peters-plus syndrome (PPS).[provided by RefSeq, Mar 2009]

**Product images:**



Circular map for RG209884