

## Product datasheet for **RG216821**

### **GALNT13 (NM\_052917) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GALNT13 (NM_052917) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GALNT13
Synonyms:	GalNAc-T13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG216821 representing NM\_052917  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGGAGATTTGTCTACTGCAAGTGTTCTAGCCACTTCGCTGATGTGGTCTTGTGTATGTCTTCT  
 TACTGCTGTACTTCAGTGAATGTAACAAATGTGATGACAAGAAGGAGAGATCTCTGCTGCCTGCATTGAG  
 GGCTGTTATTTCAAGAAACCAAGAGGGCCAGGAGAAATGGGAAAAGCTGTGTTGATTCCTAAAGATGAC  
 CAGGAGAAAATGAAAGAGCTGTTAAAAATCAATCAGTTTAACTTATGGCCAGTGATTTGATTGCCCTTA  
 ATAGAAGTCTGCCAGATGAAGATTAGAAGGATGAAGACAAAAGTCTACCCTGATGAACCTCCAAACAC  
 AAGTGTAGTCATTGTGTTTCATAATGAAGCTTGGAGCACTCTCCTTAGAACTGTTTACAGTGTGATAAAT  
 CGTTCCACACTATCTACTCTCAGAGGTCATCTTGGTAGATGATGCCAGTGAAGAGATTTTCTCAAGT  
 TGACATTAGAGAATTACGTGAAAAATTTAGAAGTCCAGTAAAAATTTAGGATGGAAGAACGCTCTGG  
 GTTAATACGTGCCGCTTCGAGGAGCAGCTGCTTCAAAGGGCAGGTCATAACTTTTCTTGATGCACAC  
 TGTGAATGCACGTTAGGATGGCTGGAGCCTTTCGCTGGCAAGAATAAAGGAAGACAGGAAAACGGTTGCT  
 GCCCTATCATTGATGTGATTAGTGATGATACTTTTGAATATATGGCTGGGTCAGACATGACTTATGGGGG  
 TTTAACTGAAAACCTGAATTTCCGCTGGTATCCTGTTCCCAAAGAGAAAATGGACAGGAGAAAAGGAGAC  
 AGAACATTACCTGTCAGGACCCCTACTATGGCTGGTGGCCTATTTTCTATTGACAGAAAACCTTTGAAG  
 AGATAGGAACTTACGATGCAGGAATGGATATCTGGGGTGGAGAGAATCTTGAAATGTCTTTTAGGATTTG  
 GCAATGTGGAGGCTCCTTGGAGATTGTTACTTGTCCCATGTTGGTCATGTTTTTCGGAAGGCAACTCCA  
 TACACTTTTCTGGTGGCACTGGTCAATCAACAAGAACAACAGGAGACTGGCAGAAGTTTGGATGG  
 ATGAATTTAAAGATTTCTTACATCATATCCCAGGTGTTGTCAAAGTGGATTATGGAGATGTGTCAGT  
 CAGAAAAACACTAAGAGAAAATCTGAAGTGAAGCCCTTTTCTTGGTACCTAGAAAAACATCTATCCGGAC  
 TCCAGATCCCAAGACGTTATTACTCACTTGGTGAAGATAAGAAATGTTGAAACCAATCAGTGTTTAGACA  
 ACATGGGCGCAAGGAAAATGAAAAGTGGGTATATTCAACTGTCATGGTATGGGAGGAAAATCAGGTATT  
 TTCTTACTGCTGACAAAGAAATCCGAACCGATGACTTGTGCTTGGATGTTTCTAGACTCAATGGACCT  
 GTAATCATGTTAAAATGCCACCATATGAGAGGAAATCAGTTATGGGAATATGATGCTGAGAGACTCACGT  
 TGCGACATGTTAACAGTAACCAATGTCTCGATGAACCTTCTGAAGAAGACAAAATGGTGCCTACAATGCA  
 GGACTGTAGTGAAGCAGATCCCAACAGTGGCTGCTAAGGAACATGACCTTGGGCACA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG216821 representing NM\_052917  
 Red=Cloning site Green=Tags(s)

MRRFVYCKVVLATSLMWVLDVFLLLYFSECNKDDKERSLLPALRAVISRNQEPEGMGKAVLIPKDD  
 QEKMKELFKINQFNLMASDLIALNRSLPDVRLGCKTKVYPDELNPNTSVVIVFHNEAWSTLLRVTYSVIN  
 RSPHYLLSEVILVDDASERDFLKLTLNENYVKNLEVPVKIIRMEERSGLIRARLRGAAASKQVITFLDAH  
 CECTLGWLEPLLARIKEDRKTVCPIIDVISDDTFEYMGSDMTYGGFNWKLNFRWYVVPQREMDRRKGD  
 RTLVPVRTPTMAGGLFSIDRNYFEEIGTYDAGMDIWGGENLEMSFRIWQCGLSLEIVTCSHVGHVFRKATP  
 YTFPGGTGHVINKNNRRLAEVWMDEFKDFFYIISPQVVKVDYGDVSVRKTLENLCKPFSWYLENIYPD  
 SQIPRRYSLGEIRNVETNQCLDNMGRKENEKVGIFNCHGMGGNQVFSYADKEIRTDLCLDVSRLNGP  
 VIMLKCHHMRGNQLWEYDAERLTLRHVNSNQCLDEPSEEDKMVPTMQDCSGSRSQQWLLRNMTLGT

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_052917

**ORF Size:** 1668 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\\_052917.4](#)

**RefSeq Size:** 5674 bp

**RefSeq ORF:** 1671 bp

**Locus ID:** 114805

**UniProt ID:** [Q8IUC8](#)

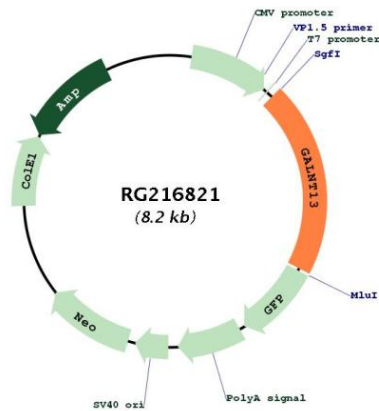
**Cytogenetics:** 2q23.3-q24.1

**Protein Families:** Transmembrane

**Protein Pathways:** Metabolic pathways, O-Glycan biosynthesis

**Gene Summary:** The GALNT13 protein is a member of the UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase (GalNAcT; EC 2.4.1.41) family, which initiate O-linked glycosylation of mucins (see MUC3A, MIM 158371) by the initial transfer of N-acetylgalactosamine (GalNAc) with an alpha-linkage to a serine or threonine residue.[supplied by OMIM, Apr 2004]

**Product images:**



Circular map for RG216821