

Product datasheet for **RG238757**

GALNT2 (NM_001291866) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GALNT2 (NM_001291866) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GALNT2
Synonyms:	CDG2T; GalNAc-T2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG238757 representing NM_001291866.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTGACAGAGAGGACTGGAATGAAATTGACCCCATTA  

AAAAAGAAAGACCTTCATCACAGCAATGGA
GAAGAGAAAGCACAAGCATGGAGACCCCTCCCTCCAGGGAAAGTACGGTGGCCAGACTTTAACAGGAA
GCTTATGTTGGAGGGACGATGGTCCGCTCCGGGCAGGACCCTTACGCCCGCAACAAGTTCAACCAGGTG
GAGAGTGATAAGCTTCGAATGGACAGAGCCATCCCTGACACCCGGCATGACCAGTGTGAGCGGAAGCAG
TGGCGGGTGGATCTGCCGGCCACCAGCGTGGTGTACAGTTCACAATGAAGCCAGGTGCGGCCCTACTC
AGGACCGTGGTACGCGTCTTAAGAAAAGCCGCCCATCTCATAAAAAGAAATCATCTTGGTGGATGAC
TACAGCAATGATCCTGAGGACGGGGCTCTCTGGGGAAAATTGAGAAAAGTGCAGTTCCTAGAAATGAT
CGACGAGAAGGCCTCATGCGCTCACGGTTCGGGGGGCCGATGCTGCCAAGCCAAGTCTGACCTTC
CTGGACAGTCACTGCGAGTGAATGAGCACTGGCTGGAGCCCTCTGAAAGGGTGGCGGAGGACAGG
ACTCGGGTGTGTACCCATCATCGATGTCATTAATATGGACAACCTTCAGTATGTGGGGCATCTGCT
GACTTGAAGGGCGTTTTGATTGAACTTGGTATTCAAGTGGGATTACATGACGCCTGAGCAGAGAAGG
TCCCGGCAGGGGAACCCAGTCGCCCTATAAAAAACCCCATGATTGCTGGTGGGCTGTTTGTGATGGAT
AAGTTCTATTTGAAGAACTGGGAAGTACGACATGATGATGGATGTGTGGGGAGGAGAGAACC  

TAGAGATCTCGTCCGCGTGTGGCAGTGTGGTGGCAGCCTGGAGATCATCCCGTGCAGCCGTGTGGGACACGTG
TTCCGGAAGCAGCACCCCTACACGTTCCCGGTGGCAGTGGCACTGTCTTTGCCGAAACACCCGCCGG
GCAGCAGAGGTCTGGATGGATGAATACAAAAATTTCTATTATGCAGCAGTGCCTTCTGCTAGAAACGTT
CCTTATGGAATATTCAGAGCAGATTGGAGCTTAGGAAGAACTCAGCTGCAAGCCTTTCAAATGGTAC
CTTGAAAATGTCTATCCAGAGTTAAGGGTCCAGACCATCAGGATATAGCTTTTGGGGCCTTGAGCAG
GGAACAACTGCCTCGACACTTTGGGACACTTTGCTGATGGTGTGGTGGAGTTTATGAATGTACAAAT
GCTGGGGGAAACAGGAATGGGCCTTGACGAAGGAGAAGTCGGTGAAGCAGATGGATTTGTGCCTTACT
GTGGTGGACCGGGCACCGGGCTCTTTATAAAGCTGCAGGGCTGCCGAGAAAATGACAGCAGACAGAAA
TGGGAACAGATCGAGGGCAACTCCAAGCTGAGGCACGTGGGCAGCAACCTGTGCCTGGACAGTGCACG
GCCAAGAGCGGGGCCTAAGCGTGGAGGTGTGTGGCCCGCCCTTTCGACAGCAGTGAAGTTCACGCTC
AACCTGCAGCAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
  
```

Protein Sequence:

>Peptide sequence encoded by RG238757
 Blue=ORF Red=Cloning site Green=Tag(s)

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MADREDWNEIDPIKKKDLHHSNGEKAQSMETLPPGKVRWPDFNQEAYVGGTMVRSQDPYARNKFNQV
ESDKLRMDRAIPDTRHDQCQRKQWRVLDLPATSVVITFHNEARSALLRVTVSVLKKSPPHLIKEIILVDD
YSNDPEDGALLGKIEKVRVLRNDRREGLMRSRVRGADAAQAKVLTFLDSHCECNEHWLEPLLERVAEDR
TRVVSPIIDVINMDNFQYVGASADLKGGFDWNLVFKWDYMTPEQRRSRQGNPVAPIKTPMIAGGLFVMD
KFYFEELGKYDMMMDVWGGENLEISFRVWQCGGSLEIIPCSRVGHVFRKQHPYTFPGSGTVFARNTRR
AAEVMDEYKNFYAAVPSARNVPYGNIQSRLELRKKLSCKPFKWYLENVPELVRVDPHQDIAFGALQQ
GTNCLDTLGHFADGVVGVYECHNAGGNQEWALTKEKSVKHMDLCLTVVDRAPGSLIKLQGCRENDSRQK
WEQIEGNSKLRHVGSNLCLDSRTAKSGGLSVEVCGPALSQQWKFTLNLQQ
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
```

Restriction Sites:

Sgfl-MluI

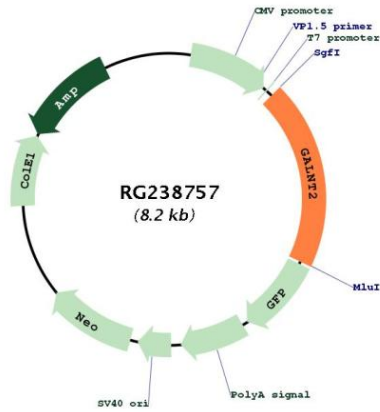
Cloning Scheme:


- ACCN:** NM_001291866
- ORF Size:** 1599 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).
- RefSeq:** [NM_001291866.2](#)
- RefSeq Size:** 4562 bp
- RefSeq ORF:** 1602 bp
- Locus ID:** 2590
- UniProt ID:** [Q10471](#)
- Cytogenetics:** 1q42.13
- Protein Families:** Secreted Protein, Transmembrane
- Protein Pathways:** Metabolic pathways, O-Glycan biosynthesis
- MW:** 61.2 kDa

Gene Summary:

This gene encodes a member of the glycosyltransferase 2 protein family. Members of this family initiate mucin-type O-glycosylation of peptides in the Golgi apparatus. The encoded protein may be involved in O-linked glycosylation of the immunoglobulin A1 hinge region. This gene may influence triglyceride levels, and may be involved Type 2 diabetes, as well as several types of cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]

Product images:



Circular map for RG238757