

Product datasheet for **RC238757**

GALNT2 (NM_001291866) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GALNT2 (NM_001291866) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GALNT2
Synonyms:	CDG2T; GalNAc-T2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238757 representing NM_001291866
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTGACAGAGAGACTGGAATGAAATTGACCCATTAAAAAGAAAGACCTTCATCACAGCAATGGAG
 AAGAGAAAAGCACAAAGCATGGAGACCCTCCCTCCAGGAAAAGTACGGTGGCCAGACTTTAACAGGAAGC
 TTATGTTGGAGGGACGATGGTCCGCTCCGGCAGGACCCTTACGCCCGCAACAAGTTCAACCAGGTGGAG
 AGTGATAAGCTTCGAATGGACAGAGCCATCCCTGACACCCGGCATGACCAGTGTGACGCGAAGCAGTGGC
 GGGTGGATCTGCCGGCCACCAGCGTGGTATCACGTTTCACAATGAAGCCAGGTGGCCCTACTCAGGAC
 CGTGGTCAGCGTGCTTAAGAAAAGCCGCCCATCTCATAAAAAGAAATCATCTTGGTGGATGACTACAGC
 AATGATCCTGAGGACGGGCTCTCTGGGAAAATTGAGAAAGTGCAGTTCTTAGAAATGATCGACGAG
 AAGGCCTCATGCGCTCACGGGTCGGGGGGCCGATGCTGCCAAGCCAAGGTCTGACCTCCTGGACAG
 TCACTGCGAGTGAATGAGCACTGGCTGGAGCCCTCCTGAAAGGGTGGCGGAGGACAGGACTCGGTT
 GTGTCACCCATCATCGATGTCATTAATATGGACAACCTTCAGTATGTGGGGGCATCTGCTGACTTGAAGG
 GCGGTTTTGATTGGAACCTGGTATTCAAGTGGGATTACATGACGCCTGAGCAGAGAAGGTCCCGGAGGG
 GAACCCAGTCGCCCTATAAAAACCCCATGATTGCTGGTGGGCTGTTTGTGATGGATAAGTTCTATTTT
 GAAGAAGTGGGAAGTACGACATGATGATGGATGTGTGGGGAGGAGAGAACCTAGAGATCTCGTTCCGCG
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 AGAGCAGATTGGAGCTTAGGAAGAACTCAGCTGCAAGCCTTCAAATGGTACCTTGAAATGTCTATCC
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 ACTTTGGGACACTTTGCTGATGGTGTGGTGGAGTTTATGAATGTCACAATGCTGGGGAAAACAGGAAT
 GGGCCTTGACGAAGGAGAAGTCCGTGAAGCACATGGATTTGTGCCTTACTGTGGTGGACCGGGCACCGGG
 CTCTCTTATAAAGCTGCAGGGCTGCCGAGAAAATGACAGCAGACAGAAATGGGAACAGATCGAGGGCAAC
 TCCAAGCTGAGGCAGTGGCAGCAACCTGTGCCTGGACAGTGCACGGCCAAGAGCGGGGGCCTAAGCG
 TGGAGGTGTGGCCCGCCCTTTCGACAGCAGTGAAGTTCACGCTCACCTGCAGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238757 representing NM_001291866
 Red=Cloning site Green=Tags(s)

MADREDWNEIDPIKKKDLHHSNGEKAQSMETLPPGKVRWPDFNQEAYVGGTMVRSQDPYARNKFNQVE
 SDKLRMDRAIPDTRHDQCQRKQWRVLDLPATSVVITFHNEARSALLRTVSVLKKSPPHL IKEIILVDDYS
 NDPEDGALLGKIEKVRVLRNDRREGLMRSRVRGADAAQAKVLTFLDSHCECNEHWLEPLLERAEDRTRV
 VSPIIDVINMDFQYVGASADLKGGF DNLFVKWDYMTPEQRRSRQGNPVAPIKTPMIAAGL FVMDKFYF
 EELGKYDMMMDVWGGENLEISFRVWQCGSLEIIPCSRVGHVFRKQHPYTFPGSGTVFARNTRRAAEVW
 MDEYKNFYAAVPSARNVPYGNIQSRLERKKLSCKPFKWYLENYPPELRVDPHQDIAFGALQQGTNCLD
 TLGHFADGVVGVYECHNAGGNQEWALTKEKSVKHMCLCLTVVDRAPGSLIKLQGCRENDSRQKWEQIEGN
 SKLRHVGSNLCLDSRTAKSGGLSVEVCGPALSQQWKFTLNLQQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

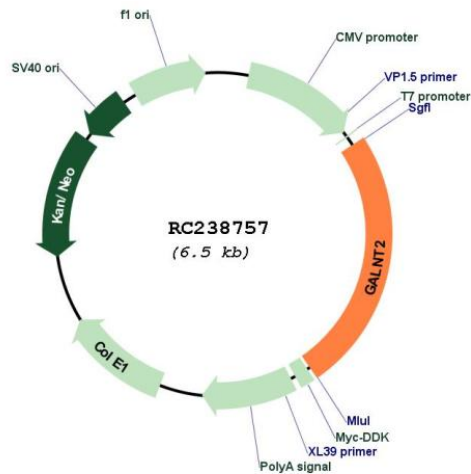
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



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).
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_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]