

Product datasheet for **RG238902**

GALNT13 (NM_001301627) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GALNT13 (NM_001301627) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG238902 representing NM_001301627.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGAGGAGATTTGTCTACTGCAAGGTGGTCTAGCCACTTCGCTGATGTGGTCTTGTGTATGTCTTC
TTACTGTGTACTTCAGTGAATGTAACAAATGTGATGACAAGAAGGAGAGATCTCTGCTGCCTGCATTG
AGGGCTGTTATTTCAAGAAACCAAGAAGGCCAGGAGAAATGGGAAAAGCTGTGTGATTCTAAAGAT
GACCAGGAGAAAAATGAAAGAGCTGTTTAAAATCAATCAGTTTAACTTATGGCCAGTGATTTGATTGCC
CTTAATAGAAGTCTGCCAGATGTAAGATTAGAAGGATGTAAGACAAAAGTCTACCCTGATGAACTCCA
AACACAAGTGTAGTCATTGTGTTTCATAATGAAGCTTGGAGCACTCTCCTTAGAACTGTTTACAGTGTG
ATAAATCGTTCACACTATCTACTCTCAGAGGTCATCTTGGTAGATGATGCCAGTGAAAGAGATTTT
CTCAAGTTGACATTAGAGAATTACGTGAAAAATTTAGAAGTGCCAGTAAAAATTATTAGGATGGAAGAA
CGCTCTGGGTTAATACGTGCCCGTCTTCGAGGAGCAGCTGCTTCAAAGGCCAGGTATAACTTTTCTT
GATGCACACTGTGAATGCACGTTAGGATGGCTGGAGCCTTTGCTGGCAAGATAAAGGAAGACAGGAAA
ACGGTTGTCTGCCCTATCATTGATGTGATTAGTGTGATACTTTTGAATATATGGCTGGGTGACACATG
ACTTATGGGGTTTTAACTGAAACTGAATTTCCGCTGGTATCCTGTTCCCAAAGAGAAATGGACAGG
AGGAAAGGAGACAGAACATTACCTGTGAGGACCCCTACTATGGCTGGTGGCCTATTTTCTATTGACAGA
AACTACTTTGAAGAGATAGGAACCTACGATGCAGGAATGGATACTGGGGTGGAGAGAATCTTGAATG
TCTTTTAGGATTTGGCAATGTGGAGGCTCCTTGGAGATTGTTACTTGTCCCATGTTGGTCATGTTTT
CGGAAGCAACTCCATACACTTTTCTGGTGGCACTGGTCATGTCATCAACAAGAACAACAGGAGACTG
GCAGAAGTTTGGATGGATGAATTTAAAGATTTCTTCTACATCATATCCCCAGGTGTTGTCAAAGTGGAT
TATGGAGATGTGCAGTCAGAAAAACACTAAGAGAAAACTGAAGTGAAGCCCTTTTCTTGGTACCTA
GAAAACATCTATCCGGACTCCCAGATCCCAAGACGTTATTACTCACTGGTGAGATAAGAAATGTTGAA
ACCAATCAGTGTTTAGACAACATGGGCCCAAGGAAAAATGAAAAAGTGGGTATATTCAACTGTCATGGT
ATGGGAGGAAATCAGGTATTTTCTTACTGCTGACAAAGAAATCCGAACCGATGACTTGTGCTTGGAT
GTTTCTAGACTCAATGGACCTGTAATCATGTTAAAATGCCACCATATGAGAGGAAATCAGTTATGGGAA
TATGATGCTGAGTCTTGTCTCTCAGTGAACAAAGTAGCTGATGGCTCCCAGCATCCTACTGTGAAACC
TGTAATGATAGCACTTTGCAAAAATGGCTACTAAGAACTATAACAAGAATGGAATTTTTAGAAATATT
TTTGGGAATTCTACTGATTACATTCTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG238902
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MRRFVYCKVVLATSLMWVLDVFLLLYFSECNKCDKERSLLPALRAVISRNQEGPGEKAVLIPKD
DQEKMKELFKINQFNLMSDLIALNRSLPDVRLGCKTKVYPDELNPNTSVVIVFHNEAWSTLLRVTYVS
INRSPHYLLSEVILVDDASERDFLKLLENYVKNLEVPVKIIRMEERSGLIRARLRGAAASKGQVITFL
DAHCECTLGWLEPLLARIKEDRKTVCPIIDVISEDFTFYMAGSDMTYGGFNWKLNFRWYVVPQREMDR
RKGDRTLPRVPTMAGGLFSIDRNYFEEIGTYDAGMDIWWGGENLEMSFRIWQCGGSLEIVTCSHVGHVF
RKATPYTFPGGTGHVINKNNRRLAEVWVDEFKDFFYIISPGVVKVDYGDVSVRKTLENLCKPFSWYL
ENIYPDSQIPRRYSLGEIRNVTNQCLDNMGRKENEKVGIFNCHGMGGNQVFSYADKEIRTDLCLD
VSRNLNPGVIMLKCHHMRGNQLWEYDAESCLSVNKVADGSQHPTVETCNDSTLQWLLRNYRMEIFRNI
FGNSTDYIL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001301627

ORF Size: 1683 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_001301627.2](#)

RefSeq Size: 5379 bp

RefSeq ORF: 1686 bp

Locus ID: 114805

UniProt ID: [Q8IUUC8](#)

Cytogenetics: 2q23.3-q24.1

Protein Families: Transmembrane

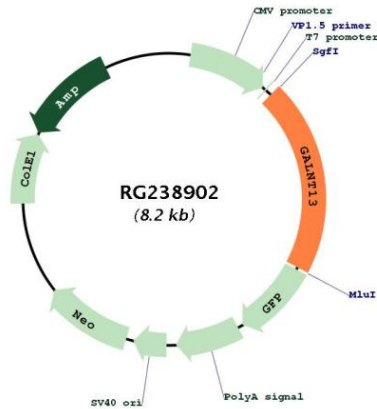
Protein Pathways: Metabolic pathways, O-Glycan biosynthesis

MW: 65.1 kDa

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 RG238902