

Product datasheet for **RC238902**

GALNT13 (NM_001301627) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GALNT13 (NM_001301627) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GALNT13
Synonyms:	GalNAc-T13
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238902 representing NM_001301627
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGAGATTTGTCTACTGCAAGTGGTTCTAGCCACTTCGCTGATGTGGTCTTGTGTATGTCTTCT
 TACTGCTGTACTTCAGTGAATGTAACAAATGTGATGACAAGAAGGAGAGATCTCTGCTGCCTGCATTGAG
 GGCTGTTATTTCAAGAAACCAAGAAGGGCCAGGAGAAATGGGAAAAGCTGTGTTGATTCCTAAAGATGAC
 CAGGAGAAAATGAAAGAGCTGTTAAAAATCAATCAGTTTAACTTATGGCCAGTGATTTGATTGCCCTTA
 ATAGAAGTCTGCCAGATGAAGATTAGAAGGATGAAGACAAAAGTCTACCCTGATGAACTTCCAAACAC
 AAGTGTAGTCATTGTGTTTCATAATGAAGCTTGGAGCACTCTCCTTAGAACTGTTTACAGTGTGATAAAT
 CGTTCCACACTATCTACTCTCAGAGGTCATCTTGGTAGATGATGCCAGTGAAGAGATTTTCTCAAGT
 TGACATTAGAGAATTACGTGAAAAATTTAGAAGTCCAGTAAAAATTTAGGATGGAAGAACGCTCTGG
 GTTAATACGTGCCGCTTCGAGGAGCAGCTGCTCAAAGGGCAGGTCATAACTTTTCTTGATGCACAC
 TGTGAATGCACGTTAGGATGGCTGGAGCCTTTCGTCGGCAAGAATAAAGGAAGACAGGAAAACGGTTGCT
 GCCCTATCATTGATGTGATTAGTGATGATACTTTTGAATATATGGCTGGGTGAGACATGACTTATGGGGG
 TTTAACTGAAAAGTGAATTTCCGCTGGTATCCTGTTCCCAAAGAGAAAATGGACAGGAGAAAAGGAGAC
 AGAACATTACCTGTCAGGACCCCTACTATGGCTGGTGGCCTATTTTCTATTGACAGAAAAGTCTTTGAA
 AGATAGGAACTTACGATGCAGGAATGGATATCTGGGGTGGAGAGAATCTTGAAATGTCTTTTAGGATTTG
 GCAATGTGGAGGCTCCTTGGAGATTGTTACTTGTCCCATGTTGGTCATGTTTTTCGGAAGGCAACTCCA
 TACACTTTTCTGGTGGCACTGGTCAATCAACAAGAACAACAGGAGACTGGCAGAAGTTTGGATGG
 ATGAATTTAAAGATTTCTCTACATCATATCCCAAGTGTGTCAAAGTGGATTATGGAGATGTGTCAGT
 CAGAAAAACACTAAGAGAAAATCTGAAGTGAAGCCCTTTTCTTGGTACCTAGAAAACATCTATCCGGAC
 TCCAGATCCCAAGACGTTATTACTCACTTGGTGAAGATAAGAAATGTTGAAACCAATCAGTGTTTAGACA
 ACATGGGCCGCAAGGAAAATGAAAAGTGGGTATATTCAACTGTCATGGTATGGGAGAAAATCAGGTATT
 TTCTTACTGCTGACAAAGAAAATCCGAACCGATGACTTGTGCTTGGATGTTTCTAGACTCAATGGACCT
 GTAATCATGTTAAAATGCCACCATATGAGAGGAAATCAGTTATGGGAATATGATGCTGAGCTTGTCTCT
 CAGTGAACAAAGTAGCTGATGGCTCCAGCATCCTACTGTGAAACCTGTAATGATAGCACTTTGCAAAA
 ATGGCTACTAAGAACTATACAAGAATGGAATTTTTAGAAATATTTTTGGGAATCTACTGATTACATT
 CTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238902 representing NM_001301627
 Red=Cloning site Green=Tags(s)

MRRFVYCKVVLATSLMWLVLDVFLLLYFSECNKDDKERSLLPALRAVISRNRQEGPGEKAVLIPKDD
 QEKMKELFKINQFNLMASDLIALNRSLPDVRLGCKTKVYPDELNPNTSVVIVFHNEAWSTLLRVTVSVIN
 RSPHYLLSEVILVDDASERDFLKLTLNRYVKNLEVPVKIIRMEERSGLIRARLRGAAASKQVITFLDAH
 CECTLGLWLEPLLARIKEDRKTVCPIIDVISDDTFEYMGSDMTYGGFNWKLNFRWYVVPQREMDRRKGD
 RTLVPVRTPTMAGGLFSIDRNYFEEIGTYDAGMDIWGGENLEMSFRIWQCGGSLEIVTCSHVGHVFRKATP
 YTFPGGTGHVINKNNRRLAEVWMEFKDFFYIISPGVVKVDYGDVSVRKTLENLCKPFSWYLENIYDP
 SQIPRRYSLGEIRNVETNQCLDNMGRKENEKVGIFNCHGMGGNQVF SYTADKEIRTDLCLDVSRLNGP
 VIMLKCHHMRGNQLWEYDAESCLSVNKVADGSQHPTVETCNDSTLQKWLLRNYTRMEIFRNIFGNSTDYI
 L

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

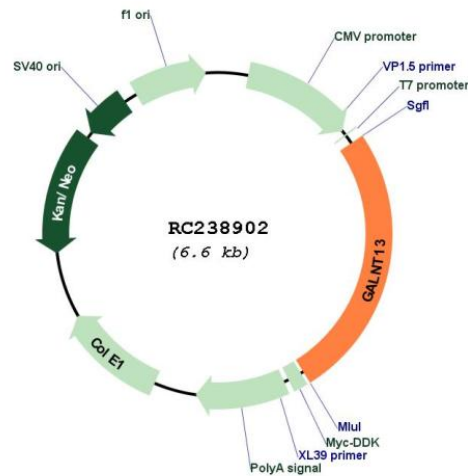
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



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).
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_001301627.2
RefSeq Size:	5379 bp
RefSeq ORF:	1686 bp
Locus ID:	114805
UniProt ID:	Q8IUC8
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]