

Product datasheet for **RG226011**

GALNT9 (NM_001122636) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GALNT9 (NM_001122636) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GALNT9
Synonyms:	GALNAC-T9; GALNACT9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226011 representing NM_001122636
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGTGGCCAGGAAGATCCGAACCTTCTGACGGTGAACATCCTGGTGTTCGTGGGCATCGTCTGT
 TCTCCGTGACTGCCCTGCAGGGCCGCTCCAGGAGCTCGTGCATCGTGAGCGCGACCGCCGGT
 GCGCAGCCGACACGCAAGGTGGCAGCTGGGGACCGTGAGGCCATCCTGCAGCGCTGGACCCTG
 GAGGAGTGGTCTACAACAGCTCAACGGCCTTCCAAGCCATCGGCCTGGTGGAGGGCCAGGAGCC
 TGGGCCAGGTGGCTTGGCGCCACCCTGCGTGTGACGGCCAGGAGCGGAAGCAAGTATGAGGAGTA
 CGGCTACAACGCTCAGCTCAGCGACCGCATCTCCCTCGATCGGAGCATCCCCGACTACCGGCCAGAAAG
 TGCAGACAGATGAGCTACGCCAGGACCTGCCAGGTCTCCGTGGTCTTCTCATCTTCGTCATGAGGCGC
 TGTGGTCTCCTGCGCTCCGTGCACAGCTGGTCAACCACACGCCCTCCAGCTCCTCAAGGAGTCTAT
 CCTGGTGGACACAACAGTGACAACGTGGAACCAAGTCAATCTGGACCAGTACGTCAACAAGCGGTAC
 CCAAGCCCTCGTGAAGATTGTCCGCAACAGCCGGCGGAAGGACTGATCCGCGCGCGCTGCAGGGCTGGA
 AGCGGCCACCGCCAGTCTCGGCTTCTTTGATGCCACGTCGAGTTCAACACGGGCTGGGCCGAGCC
 CGCACTGTCCGGATCCGAGAGGACCGCGTCGCATCGTGTGCCAGCCATCGACAACATCAAGTACAGC
 ACGTTTGGAGTGCAGCAGTATGCGAACGCCGCCATGGCTACAACCTGGGCTCTGGTGCATGTACATCA
 TCCCCCGCAGGACTGGTGGACCGCGGACGAGTACAGCCCATCAGGACCCAGCCATGATCGGCTG
 CTCCTTCGTAGTGGACCGGAGTACTTCGGAGACATTGGGCTGCTGGACCCCGCATGGAGGTGTATGGC
 GCGGAGAACGTAGAAGTGGCATGAGGGTGTGGCAGTGTGGCGGACGATGGAGGTGCTGCCCTGCTCCC
 CGGTGGCCACATCGAGCGCACCAAGCCCTACAACAACGACTTACTACTATGCCAAGCGCAACGC
 CCTGCGCGCCGCGAGGTGGATGGATGACTTCAAGTCCACGTGTACATGGCCTGGAACATCCCCATG
 TCGAACCCAGGGGTGGACTTCGGGGACGTGCTGAGAGGCTGGCCCTGCGTCAGAGGCTGAAGTGTGCA
 GCTTCAAGTGGTACCTGGAGAACGTGTACCCGGAGATGAGGGTCTACAACAACACCCTCACGTACGGAGA
 GGTGAGAAACAGCAAAGCCAGTGCCTACTGTCTGGACCAGGGAGCGGAGGACGGCGACCGGGCGATCCTC
 TACCCCTGCCACGGATGTCTCCAGCTGGTGGGTACAGCGCTGATGGACTGCTGCAGCTGGGCCTC
 TGGGCTCCACAGCCTTCTGCTGACTCCAAGTGTCTGGTGGATGACGGCACGGGCCGATGCCACCCCT
 GAAGAAGTGTGAGGATGTGGCGCGCAACACAGCGGCTGTGGGACTTACCCAGAGTGGCCCCATTGTG
 AGCCGGGCCACGGCCGCTGCCTGGAGGTGGAGATGTCCAAGATGCCAAGTGGGCTCCGGCTGGTGG
 TACAGAGTGTCTCGGGCAGAAGTGGATGATCAGAACTGGATCAACACGCACGGCAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG226011 representing NM_001122636
 Red=Cloning site Green=Tags(s)

MAVARKIRTLTIVNIVFVGVIVLFSVYCRQLQGRSQELVRIVSGDRRVRSRHAKVGTLDGREALQRLDHL
 EEVYVYNQLNGLAKPIGLVEGPGGLGQGLAATLRDDGQEAEGKYEEYGYNAQLSDRISLDRSIPDYRPRK
 CRQMSYAQDLPPQVSVVIFVNEALSVILRSVSVNHTPSQLLKEVILVDDNSDNVELKFNLDQYVKNRY
 PGLVKIVRNSRREGLIRARLQGWKAATAPVVGFFDAHVEFNTGWAEPALSRIREDRRRIIVLPAIDNIKYS
 TFEVQYANAAGHYNWGLWCMYIIPPQDWLDRGDESAPIRTPAMIGCSFVVDREYFGDIGLLDPGMEVYG
 GENVELGMRVWQCGGSMEVLPCSRVAHIERTKPYNNIDYAKRNALRAAEVWMDDFKSHVYMAWNIIPM
 SNPGVDFGDVSERLALRQLKCRSFKWYLENVYPEMRVYNNLTLYGEVRNSKASAYCLDQGAEDGDRAIL
 YPCHGMSSQLVRYADGLLQLGPLGSTAFLPDSKCLVDDGTGRMPTLKKCEDVARPTQRLWDFQTQSGPIV
 SRATGRCLLEVMSKDANFGLRLVVQRCSGQKWMIRNWIKHARH

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001122636

ORF Size: 1809 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_001122636.2](#)

RefSeq Size: 2680 bp

RefSeq ORF: 1812 bp

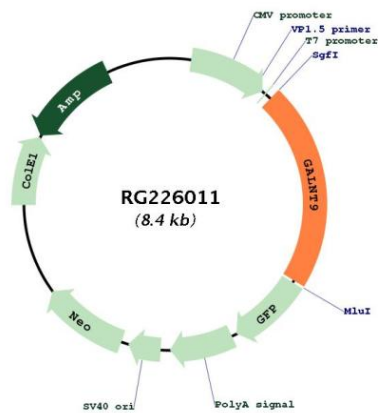
Locus ID: 50614

UniProt ID: [Q9HCQ5](#)

Cytogenetics: 12q24.33

Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, O-Glycan biosynthesis
Gene Summary:	This gene encodes a member of the UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase (GalNAc-T) family of enzymes. GalNAc-Ts initiate mucin-type O-linked glycosylation in the Golgi apparatus by catalyzing the transfer of GalNAc to serine and threonine residues on target proteins. They are characterized by an N-terminal transmembrane domain, a stem region, a luminal catalytic domain containing a GT1 motif and Gal/GalNAc transferase motif, and a C-terminal ricin/lectin-like domain. GalNAc-Ts have different, but overlapping, substrate specificities and patterns of expression. This gene is expressed specifically in the brain, with highest expression in the cerebellum. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG226011