

Product datasheet for **SC312588**

GALNT9 (NM_021808) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GALNT9 (NM_021808) Human Untagged Clone
Tag:	Tag Free
Symbol:	GALNT9
Synonyms:	GALNAC-T9; GALNACT9
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_021808 edited AGGCCAACTTCAGCCTGGCACGGCGCCGCGGACTCCACCATCCCGGGGAAGGAGCCG GACCCCTGTGTGGCAGTGTGGCGCAGCATGGAGGTGCTGCCCTGCTCCCGCGTGGCCCA CATCGAGCGCACCAAGGAAGCCCTACAACAACGACATTGACTACTACGCCAAGCGCAACGC CCTGCGCGCCCGGAGGTGTGGATGGATGACTTCAAGTCCCACGTGTACATGGCCTGGAA CATCCCCATGTGCAACCCAGGGGTGACTTCGGGGACGTGTCTGAGAGGCTGGCCCTGCG TCAGAGGCTGAAGTGTGCGAGCTTCAAGTGGTACCTGGAGAACGTGTACCCGGAGATGAG GGTCTACAACAACACCCTCACGTACGGAGAGGTGAGAAACAGCAAAGCCAGTGCCTACTG TCTGGACCAGGGAGCGGAGGACGGCGACCGGGCGATCCTCTACCCCTGCCACGGGATGTC CTCCAGCTGGTGCCTGACAGCGCTGACGGCCTGCTGCAGCTGGGGCCTCTGGGCTCCAC AGCCTTCTGCTGACTCCAAGTGTCTGGTGGATGACGGCACGGGCCGATGCCACCCCT GAAGAAGTGTGAGGATGTGGCGCGGCAACACAGCGGCTGTGGGACTTCAACCAGAGTGG CCCCATTGTGAGCCGGCCACGGGCCGCTGCCTGGAGGTGGAGATGTCCAAGATGCCAA CTTTGGGCTCCGCTGGTGGTACAGAGGTGCTCGGGGCAGAAAGTGGATGATCAGAAACTG GATCAAACACGCACGGCACTGACCCACCTCCGCCGGACCCCCACAGACCTCGGG
Restriction Sites:	Please inquire
ACCN:	NM_021808
Insert Size:	800 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_021808.2 , NP_068580.2
RefSeq Size:	1741 bp
RefSeq ORF:	714 bp
Locus ID:	50614
UniProt ID:	Q9HCQ5
Cytogenetics:	12q24.33
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, O-Glycan biosynthesis
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (B) contains a distinct 5' UTR and lacks an in-frame portion of the 5' coding region, compared to variant A. The resulting isoform (B) has a shorter N-terminus compared to isoform A, and lacks the glycosyltransferase domain.</p>