

## Product datasheet for **SC324143**

### **GALNTL2 (GALNT15) (NM\_054110) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GALNTL2 (GALNT15) (NM_054110) Human Untagged Clone
Tag:	Tag Free
Symbol:	GALNTL2
Synonyms:	GALNACT15; GALNT7; GALNT13; GALNTL2; PIH5; pp-GalNAc-T15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_054110.2  
GTCAGCCCTGCTTGACTGAGAACCACCCAGCTCATCCCAGACACCTCATAGCAACCTATT  
TATACAAAGGGGAAAGAAACACCTGAGCAGAATGGAATCATTATTTTTTCCCAAGGAG  
AAAACCGGGTAAAGGGAGGGAAGCAATCAATTTGAAGTCCCTGTGAATGGGCTTTCAG  
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TCCACTGGGAACCTTTGCCAGAGCATGTGAGGAAGGCCCTCCAGTCCCCATAAGCCCCA  
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CTGGAGCGTATGACTCTTATGTCGCTGCGAGGTGGTAAAAACCTCGAACTGTCTTTCA
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TTGCAGTGAGCTGAGATCATGCCATTGCACTCCAACCTGGGTGACAGAGTGAGACTCCAT
CTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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- Restriction Sites:** ECoRI-NOT
- ACCN:** NM\_054110
- 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).
- 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:**

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\\_054110.2](#), [NP\\_473451.2](#)

**RefSeq Size:** 3580 bp

**RefSeq ORF:** 1920 bp

**Locus ID:** 117248

**UniProt ID:** [Q8N3T1](#)

**Cytogenetics:** 3p25.1

**Domains:** RICIN, Glycos\_transf\_2

**Protein Families:** Transmembrane

**Protein Pathways:** Metabolic pathways, O-Glycan biosynthesis

**Gene Summary:** Catalyzes the initial reaction in O-linked oligosaccharide biosynthesis, the transfer of an N-acetyl-D-galactosamine residue to a serine or threonine residue on the protein receptor. Although it displays a much weaker activity toward all substrates tested compared to GALNT2, it is able to transfer up to seven GalNAc residues to the Muc5AC peptide, suggesting that it can fill vicinal Thr/Ser residues in cooperation with other GALNT proteins. Prefers Muc1a as substrate.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.