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Product datasheet for SC120226

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:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF within SC120226 sequence for NM_054110 edited (data generated by NextGen Sequencing)

ATGCTCCTAAGGAAGCGATACAGGCACAGACCATGCAGACTCCAGTTCCTCCTGCTGCTC
CTGATGCTGGGATGCGTCCTGATGATGGTGGCGATGTTGCACCCTCCCCACCACACCCTG
CACCAGACTGTCACAGCCCAAGCCAGCAAGCACAGCCCTGAAGCCAGGTACCGCCTGGAC
TTTGGGGAATCCCAGGATTGGGTACTGGAAGCTGAGGATGAGGGTGAAGAGTACAGCCCT
CTGGAGGGCCTGCCACCCTTTATCTCACTGCGGGAGGATCAGCTGCTGGTGGCCGTGGCC
TTACCCCAGGCCAGAAGGAACCAGAGCCAGGGCAGGAGAGGTGGGAGCTACCGCCTCATC
AAGCAGCCAAGGAGGCAGGATAAGGAAGCCCCAAAGAGGGACTGGGGGGCTGATGAGGAC
GGGGAGGTGTCTGAAGAAGAGGAGTTGACCCCGTTCAGCCTGGACCCACGTGGCCTCCAG
GAGGCACTCAGTGCCCGCATCCCCCTCCAGAGGGCTCTGCCCGAGGTGCGGCACCCACTG
TGTCTGCAGCAGCACCCTCAGGACAGCCTGCCCACAGCCAGCGTCATCCTCTGTTTCCAT
GATGAGGCCTGGTCCACTCTCCTGCGGACTGTACACAGCATCCTCGACACAGTGCCCAGG
GCCTTCCTGAAGGAGATCATCCTCGTGGACGACCTCAGCCAGCAAGGACAACTCAAGTCT
GCTCTCAGCGAATATGTGGCCAGGCTGGAGGGGGTGAAGTTACTCAGGAGCAACAAGAGG
CTGGGTGCCATCAGGGCCCGGATGCTGGGGGCCACCAGAGCCACCGGGGATGTGCTCGTC
TTCATGGATGCCCACTGCGAGTGCCACCCAGGCTGGCTGGAGCCCCTCCTCAGCAGAATA
GCTGGTGACAGGAGCCGAGTGGTATCTCCGGTGATAGATGTGATTGACTGGAAGACTTTC
CAGTATTACCCCTCAAAGGACCTGCAGCGTGGGGTGTTGGACTGGAAGCTGGATTTCCAC
TGGGAACCTTTGCCAGAGCATGTGAGGAAGGCCCTCCAGTCCCCCATAAGCCCCATCAGG
AGCCCTGTGGTGCCCGGAGAGGTGGTGGCCATGGACAGACATTACTTCCAAAACACTGGA
GCGTATGACTCTCTTATGTCGCTGCGAGGTGGTGAAAACCTCGAACTGTCTTTCAAGGCC
TGGCTCTGTGGTGGCTCTGTTGAAATCCTTCCCTGCTCTCGGGTAGGACACATCTACCAA
AATCAGGATTCCCATTCCCCCCTCGACCAGGAGGCCACCCTGAGGAACAGGGTTCGCATT
GCTGAGACCTGGCTGGGGTCATTCAAAGAAACCTTCTACAAGCATAGCCCAGAGGCCTTC
TCCTTGAGCAAGGCTGAGAAGCCAGACTGCATGGAACGCTTGCAGCTGCAAAGGAGACTG
GGTTGTCGGACATTCCACTGGTTTCTGGCTAATGTCTACCCTGAGCTGTACCCATCTGAA
CCCAGGCCCAGTTTCTCTGGAAAGCTCCACAACACTGGACTTGGGCTCTGTGCAGACTGC
CAGGCAGAAGGGGACATCCTGGGCTGTCCCATGGTGTTGGCTCCTTGCAGTGACAGCCGG
CAGCAACAGTACCTGCAGCACACCAGCAGGAAGGAGATTCACTTTGGCAGCCCACAGCAC
CTGTGCTTTGCTGTCAGGCAGGAGCAGGTGATTCTTCAGAACTGCACGGAGGAAGGCCTG
GCCATCCACCAGCAGCACTGGGACTTCCAGGAGAATGGGATGATTGTCCACATTCTTTCT
GGGAAATGCATGGAAGCTGTGGTGCAAGAAAACAATAAAGATTTGTACCTGCGTCCGTGT
GATGGAAAAGCCCGCCAGCAGTGGCGATTTGACCAGATAAATGCTGTGGATGAACGATGA

Clone variation with respect to NM_054110.4
1887 t=>a;1899 c=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_054110 unedited
AGACTAAAATATNAGGAACCACGTCGCGCGATAGGAGGACCCCGCATTCCGCACGAGGAA
GCGTTCAAGNAGGACGGCTGTCAGCCCTGCTTGACTGAGAACCCACCAGCTCATCCCAGA
CACCTCATAGCAACCTATTTATACAAAGGGGNGAAAGAAACACCTGAGCAGAATGGAATC
ATTATTTTTTTCCCAAGGAGAAAACCGGGGTATAGGTGAGTGAAGCAATTCAATTTGAAG
TCCCTGTGAATGGGCTTTCAGAAGGCAATTAAAGAAATCCACTCAGAGAGGACTTGGGGT
GAAACTTGGGTCCTGTGGTTTTCTGATTGTAAGTGGAAGCAGGTCTTGCACACGCTGTTG
GCAAATGTCAGGACCAGGTTAAGTGACTGGCAGAAAAACTTCCAGGTGGAACAAGCAACC
CAGGTTCTGCTGCAAGCTTGAAGGAGCCTGGAGCGGGAGAAAGCTAACTTGAACATGACC
TGTTGCATTTGGCAAGTTCTAGCAACATGCTCCTAAGGAAGCGATACAGGCACAGACCAT
GCAGACTCCAGTTCCTCCTGCTGCTCCTGATGCTGGGATGCGTCCTGATGATGGTGGCGA
TGTTGCACCCTCCCCACCACACCCTGCACCAGACTGTCACAGCCCAAGCCAGCAAGCACA
GCCCTGAAGCCAGGTACCGCCTGGACTTTGGGGAATCCCAGGATTGGGTTCTGGAAGCTN
GAGATGAGGGTGAAGAGTACAGCCCTTTGGAGGGCCTGCCCCCCTTTTTTTCACTGCGGG
AGGATCACCTGCTTGGTGGCCGTGGGCTTACCCCAGGCCCGAGGACCCAAACCCCGGCCA
GGGGAGGTGGGAGCTACCGCCTCATTAACGCGCCCAGGGGCCGGGTTAAGAAGCCCCAAA
AAGGACTGGGGGGCTAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_054110 unedited
GTATAATACTTTTTTTTTTGAAAGTAGTCTCACTCTGTCACCCAGGTTGGAGTGCAATGG
CATGATCTCAGCTCACTGCAACCTCTGCCTCCTGGGTTCAAGCGATTCTCTTGCCTCAAC
CTCCCAAGTAGCTGGGATTACAGGTATGCGCCACCATGCCCAGCTAATTTTTGTATTTTT
ATTAGAGACAAAGTTTTGCAATGTTGACCAGGCTGGTCTCAAACCCCTGACATCAGGTGA
TCCTCCCAACTCTGCCTCCCAAAGTGCTGGAATTACAGGCATGAGCCACCGCGCCCGGCA
GGAGAGTTTCTCAACTGTGAACACCTTTGTTAATGGGAATGCTCAAATTGTGCTGGTACT
TCTAACACCAACGACTAAAGAGAAATCGATTGCAAGGGAATCTGGTTATGGTTATGGTTA
ACCAAGTTAGAGAAGAGCTAGGGCAGGGGGAATAGAGGTAGATTCTCAGTAGGAAGGAAA
TTCTCTACAATGGTGGAAATTCTCATTAACATGAAAATGTCTTTTCCTAGATCTCTTGAA
GCTTTTCAACTGCTGGGTTGAGCTGGAGAATTGGGCCAAAGTGCTCTTGCATCTTCTCTG
CAATCCTAAACCTCCTTTCTGTAGCTCCCTTTCCTTCTTCTGAGATATGGCTCAACAAAT
GAACACAACATTTGTGCTAATAAAACCAATTCAAAGTTTTTGGGATTGGAAAGGCCATAA
CATCTGGCTAACTCCTTAAATTTTCAAGGTTTGGCCAAACAGACAATCCAAAGTTAAAGC
CATTTTGGAGAACAAAAAAATTGATCCATTGAAATTAAGTATCCTCGGAGGTGCTGGCAA
AAAAAAGTACAAA

Restriction Sites: ECoRI-NOT

ACCN: NM_054110

Insert Size: 3500 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).

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.