

Product datasheet for **RG214059**

GALNT5 (NM_014568) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GALNT5 (NM_014568) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GALNT5
Synonyms:	GALNAC-T5; GALNACT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG214059 representing NM_014568
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACAGGATCCGAAAGTTTTTCCGAGGAAGTGGCGAGTCTTGGCATTATCTTTGTAGCTTCTGTCA
 TCTGGCTCCTCTTTGACATGGCAGCTCTCCGCCTCTATTCAAGTGAAGATCAACACTCGGGTCATCAAGGA
 AGACATTTGTGAGGAGGGAGCGGATAGGATTCAAGTTCAGCCAGACCAAGGAAAAATTTTTTACAGCAGC
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 CTGAGGAGAGTGTCTCAAGGTTGAGGTGGACTTGGACCAAAACCCAGAGGGAAAGAAAAATGCAGAAATGC
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 AAGCAGAAGACAGACGGGAGAGGCACAAACCTGAAGCCTCCTCTACCAGGGGACACCAAGCAAACGA
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 ATCAGTCTTTCATCCAGAACTGGTGAATCATTGTTTTGAAAACAATCAGCAATTTATGCTTGGAA
 GGAATTTTTCTCAAAGATCCTGAAAGTAGCTGCCTGTGACCCAGTGAAGCCATATCAAAGTGGAAAT
 TTGAAAAATATTATGAAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214059 representing NM_014568
 Red=Cloning site Green=Tags(s)

MNRIRKFFRGSGRVLAFIFVASVIWLLFDMAALRSLFSEINTRVIKEDIVRRERIGFRVQPDQGKIFYSS
 IKEMKPLRGHGKGAWGKENVRKTEESVLKVEVDLDQTQREKMQNALGRGKVVPLWHPAHLQTLPTPN
 KQKTDGRGTPKPEASSHQGTPKQTTAQGAPKTSFIAAKGTQVVKISVHMGRVSLKQEPKSHSPSSDTSKL
 AAERDLNVTIISLSTDRPKQRSQAVANERHPASTAVPKSGEAMALNKTKTQSKEVNANKHKANTS LPPFK
 FTVNSNRLRKQSINETPLGSLSKDDGARGAHGKLNFSSEHLVITKEEEQKADPKVEVSNKTKTIFPKV
 LGKSQSKHISRNRSEMSSSLAPHRVPLSQTNHALTGGLEPAKINITAKAPSTEYNQSHIKALLPEDSGT
 HQVLRIDVTLSPRDPKAPGQFGRPVVPHGKEKEAERRWKEGNFNVYLSLIPVDRAIEDTRPAGCAEQ
 VHNPLPTTSVIMCFVDEWSTLLRSVHSVNRSPPHLIKEILLVDDFSTKDYLKDNLDKYSQFPKVRIL
 RLKERHGLIRARLAGAQNATGDVLTFLDSHVECNVWGLEPLLERVYLSRKKVACPVIEVINDKDMSYMTV
 DNFQRGIFVWPMNFGWRTIPDPVIAKNRIKETDTRCPVMAGGLFSIDKSYFFELGTYPGLDVWGGENM
 EL SFKVVMCGGEIEIIPCSRVGHIFRNDNPYSFPKDRMKTVERNLRVAEVLWDEYKELFYGHGDHLIDQ
 GLDVGNL TQREL RKKLCKSFKWYLENVFPDLRAPIVRASGVL INVALGKCISIENTTVILEDCDGSKE
 LQQFN YLWRLIKCGEWCI APIPKGAVRLHPCDNRNKGLKWLHKSTSVFHPELVNHI V FENNQQLLCLE
 GNFSQKILKVAACDPVKPYQKWKFEKYEA

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

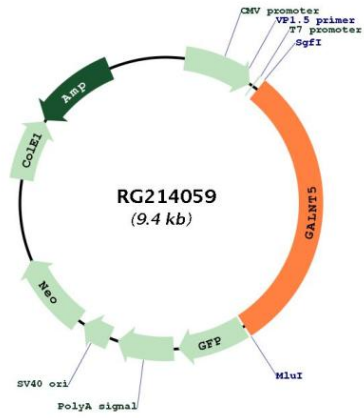


ACCN: NM_014568

ORF Size: 2820 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_014568.3
RefSeq Size:	3131 bp
RefSeq ORF:	2823 bp
Locus ID:	11227
UniProt ID:	Q7Z7M9
Cytogenetics:	2q24.1
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, O-Glycan biosynthesis
Gene Summary:	The protein encoded by this gene is a membrane-bound polypeptide N-acetylgalactosaminyltransferase that is found in the Golgi. The encoded protein catalyzes the first step in the mucin-type O-glycosylation of Golgi proteins, transferring an N-acetyl-D-galactosamine residue to a serine or threonine residue on the protein receptor. [provided by RefSeq, Aug 2016]

Product images:



Circular map for RG214059