

Product datasheet for **RG214951**

GALNT12 (NM_024642) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GALNT12 (NM_024642) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GALNT12
Synonyms:	CRCS1; GalNAc-T12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG214951 representing NM_024642
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGGGCGCACGGCGCGCGCGCTGCCCGGGAACTGCGGCGCGCCGGGAGGCGCTGTTGGTGC
 TCCTGGCCTACTGGCGTTGGCCGGCTGGGCTCGGTGCTGCGGGCGCAGCGTGGGGCCGGGCGGGG
 TGCCGAGCCGGGACCCCGCGCACCCCGCGCCCGGGCGCGCGAGCCGGTCATGCCGCGCCGCCGGTG
 CCGGCGAACGCGCTGGGCGCGGGGCGAGGCGGTGCGGCTGCAGCTGCAGGGCGAGGAGCTGCGGCTGC
 AGGAGGAGAGCGTGGGCTGCACAGATTAACATCTACCTCAGCGACCGCATCTCACTGCACCGCCGCT
 GCCCGAGCGTGGAAACCCGCTGTGCAAAGAGAAGAAATATGATTATGATAATTTGCCCAGGACATCTGTT
 ATCATAGCATTTTATAATGAAGCCTGGTCAACTCTCCTTCGGACAGTTTACAGTGTCTTGGACATCCC
 CGGATATCCTGCTAGAAGAAGTGATCCTTGTAGATGACTACAGTATAGAGACACCTGAAGGAGCGCTT
 GGCAATGAGCTTTCGGGACTGCCAAGGTGCGCCTGATCCGCGCAACAAGAGAGAGGGCTGGTCCGA
 GCCCGGCTGCTGGGGGCGTCTGCGGCGAGGGGCGATGTTCTGACCTTCTGGACTGTCACTGTGAGTGCC
 ACGAAGGGTGGTGGAGCCGCTGCTGCAGAGGATCCATGAAGAGGAGTCCGCGAGTGGTGTGCCCGGTGAT
 TGATGTGATCGACTGGAACACCTTGAATACCTGGGAACTCCGGGGAGCCCCAGATCGGCGGTTTCGAC
 TGGAGGCTGGTGTTCACGTGGCACACAGTTCCTGAGAGGGAGAGGATACGGATGCAATCCCCGTCGATG
 TCATCAGGTCTCCAACAATGGCTGGTGGGCTGTTTGTGTGAGTAAGAAATATTTTGAATATCTGGGGTC
 TTATGATACAGGAATGGAAGTTTGGGGAGGAGAAAACCTCGAATTTTCTTTAGGATCTGGCAGTGTGGT
 GGGTCTGGAAACACACCCATGTTCCCATGTTGGCCATGTTTCCCAAGCAAGCTCCCTACTCCCGCA
 ACAAGGCTCTGGCCAACAGTGTTCGTGCAGCTGAAGTATGGATGGATGAATTTAAAGAGCTCTACTACCA
 TCGCAACCCCGTGCCCGCTTGGAACTTTTGGGGATGTGACAGAGAGGAAGCAGCTCCGGGACAAGCTC
 CAGTGTAAAGACTTCAAGTGGTCTTGGAGACTGTGTATCCAGAAGTGCATGTGCCTGAGGACAGGCCTG
 GCTTCTCGGGATGCTCCAGAACAAGGACTAACAGACTACTGCTTTGACTATAACCCTCCCGATGAAAA
 CCAGATTGTGGGACACCAGGTCATTCTGTACCTCTGTCATGGGATGGGCCAGAATCAGTTTTTTCGAGTAC
 ACGTCCAGAAAGAAATACGCTATAACACCCACCAGCCTGAGGGCTGCATTGCTGTGGAAGCAGGAATGG
 ATACCCTTATCATGCATCTCTGCAAGAAACTGCCCCAGAGAATCAGAAGTTCATCTTGCAGGAGGATGG
 ATCTTTATTTACGAACAGTCCAAGAAATGTGTCCAGGCTGCGAGGAAGGAGTTCGAGTGACAGTTTCGTT
 CCACTCTTACGAGACTGCACCAACTCGGATCATCAGAAATGGTCTTCAAAGAGCGCATGTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG214951 representing NM_024642
 Red=Cloning site Green=Tags(s)

MWGRTARRRCPRELRRGREALLVLLALLALAGLGSVLRARQAGAGAAEPGPPRTPRPGRRPEVMPRPPV
 PANALGARGEAVRLQLQGEELRLQEESVRLHQINIYLSDRISLHRRLEPERWNPLCKEKKYDYNLPRTSV
 IIAFYNEAWSTLLRTPVSVLETSPDILLEEVILVDDYSDREHLKERLANELSGLPKVRIRANKREGLVR
 ARLLGASAARGDVLTFLDCHCECHEGWLEPLLQRIHEEESAVVCPVIDVIDWNTFEYLGNSGEPQIGGFD
 WRLVFTWHTVPERERIRMQSPVDVIRSPTMAGGLFAVSKKYFEYLGSYDTGMEVWGGENLEFSFRIWQCG
 GVLETHPCSHVGHVFPKQAPYSRNKALANSVRAAEVWMDEFKELYYHRNPRARLEPFQDVTERKQLRDKL
 QCKDFKWFLETVPELVHPEDRPGFFGMLQNKGLTDYCFDYNPPDENQIVGHQVILYLCHGMGQNF FEY
 TSQKEIRYNTHQPEGCIAVEAGMDTLIMHLCEETAPENQKFIHQEDGSLFHEQSKKCVQAARKESSDSFV
 PLLRDCTNSDQKWFKERML

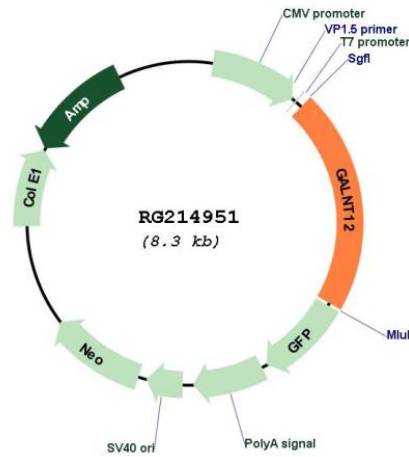
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:


Plasmid Map:


ACCN: NM_024642
 ORF Size: 1743 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_024642.5
RefSeq Size:	2770 bp
RefSeq ORF:	1746 bp
Locus ID:	79695
UniProt ID:	Q8IXK2
Cytogenetics:	9q22.33
Domains:	RICIN, Glycos_transf_2
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, O-Glycan biosynthesis
Gene Summary:	This gene encodes a member of a family of UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferases, which catalyze the transfer of N-acetylgalactosamine (GalNAc) from UDP-GalNAc to a serine or threonine residue on a polypeptide acceptor in the initial step of O-linked protein glycosylation. Mutations in this gene are associated with an increased susceptibility to colorectal cancer.[provided by RefSeq, Mar 2011]