

Product datasheet for **MG209375**

Galnt11 (BC021504) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galnt11 (BC021504) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Galnt11
Synonyms:	A430075I06Rik; A1648252; E430002F06Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209375 representing BC021504
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGAAGCATCACAGTTCGATATTTTTGTTATGGGTGCCTTTTTACATCTGCTACCTGGACAGTTCCTGC
 TTTTCATTATTTAACTTCAGTGAAGTACTCAGCCCTTAGGAATGTGCCCATCAAGGGTCTGGGCC
 CCACGGGCCATTTCCAAAAAATCTACCCACGTTTCACTCGAGGTCCAGGTCCGGTATTAGATCCACAG
 TTCAAAGCAAACAGAATCGACCGTTTGTGAATAATCACATTGAAGATCCAGATAAAGGCCTCTCAAAT
 CTTCTCTGAAGTATGATTTTCAATGAACGTGATCAGGAATTGAGAGACCTGGGCTACCAGAAGCA
 CGCCTTTAATATGCTCATTAGTAACCGCTTGGGATACCACAGAGACGTGCCGGACACCAGGAATGCAGAG
 TGTAGGAGGAAGTCTACCCGACTGACCTGCCAAGTCTAGCATTGTCTGTTTCTACAATGAAGCCT
 TTTCTGCCTTACTGCGGACTGTGCACAGTGTGTGGACCGCACACCGGCCACCTTCTTCATGAGATCAT
 CCTTGTGGATGACAGCAGTACTTTGATGATTTAAAAGGAGAATGGATGAGTACATCCAAGATACCTG
 CCTGCAAAAGTCAAGGTCAATAAGAAATATGAAGCGCGAGGGATTGATCCGAGGACGAATGATCGGAGCAG
 CCCACGCTACAGGAGAAGTCTGGTGTCTGGACAGCCACTGTGAAGTGAATGTGATGTGGTTACAGCC
 CCTGCTGGCCATTATCCTTGAGGACCCACACACAGTGGTGTGCCCGTGATTGACATCATCAGTGCAGAC
 ACACTCGCTTACAGCTCATCCCCAGTAGTTCGGGGAGGTTTCACTGGGGCTGCACTTCAAGTGGGATC
 TAGTTCCTCGTATCTGAGCTGGGAGGCCCTGACGGCGCCACGGCCCAATAAGGTCACCTACAATGGCTGG
 AGGCTTGTGGCCATGAACAGACAGTATTTCAATGATCTTGGACAGTATGACAGTGGCATGGATATCTGG
 GGAGGAGAAAATCTGAAATCTCATTTCGGATCTGGATGTGTGGCGCAAGCTCTTCATCTCCCTTGTCT
 CAAGACTAGGACACATTTTCCGAAAAAGCGACCGTACGGATCTCCGGAAGGCCAGGACACCATGACACA
 CAACTCCCTGAGACTGGCACATGTCTGGCTGGATGAGTACAAGGAGCAATATTTTCTTAAGACCTGAT
 TTGAAGAACAAAAGCTTCGGAATATCAGTGAAGTGTGAATTGAGGAAGAAAAGTGGGCTGTCAGTTCAT
 TCAAGTGGTATTTGGATAATATTTACCCTGAGATGCAGATACCTGGCCGAATGCCAAACCTCAGCAGCC
 CGTTCTCATCAACAGAGGACCAAGCGCCCGAGTCTCGACGCTGGAAGGCTCTACCCTTGCAGACC
 AACAAATGCCTGGTGGCCAGGGCCGCTCCAGCCAGAAAGGAGGCTAGTGTCTTAAAGACCTGTGACT
 ACGGAGACCCAACTCAGGTCTGGATTTAATGAAGACCATGAATTGATTTTAAACAACCTCCTTTGCCT
 TGACATGTCAGAACTCGCTCATCGGATCCACCCGACTCATGAAGTCCATGGGTGAGGAGATCCAG
 CAGTGGACCTTTGGGAAGAACACCGGCTGTACCAAGTGTCCGTTGGGCAGTGCCTGAGAGTTATGGACC
 TGATGGATCAGAAGGGCTACGTTGGCATGGCGATCTGCGATGGCTCCTCCTCAACAGTGGCGTCTAGA
 AGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209375 representing BC021504
 Red=Cloning site Green=Tags(s)

MGSITVRYFCYGCLFSTATWTVLLFIYFNSEVTQPLRNVPKGSQPHGPFKPFYPRFTRGPRVLDPO
 FKANRIDRLMNNHIEDPKGLSKSSSELGMIFNERDQELRDLGYQKHAFNMLISNRLGYHRDVPDRNAE
 CRRKSYPTDLPTASIVICFYNEAFSALLRTVHVVDRTPAHLLEIILVDDSSDFDLKELDEYIQRYL
 PAKVKVIRNMKREGLIRGRMIGAAHATGEVLVFLDSHCEVNMWMLQPLLAILEDPHTVVCVIDIISAD
 TLAYSSSPVVRGGFNWGLHFKWDLVPVSELGGPDGATAPIRSPTMAGGLFAMNRQYFNDLGGYDSGMDIW
 GGENLEISFRIWMCCKLFIIPCSRVGHIFRKRPPYGSPEGQDTMTHNSLRRLAHVWLDEYKEQYFSLRPD
 LKNKSFQNI SERVELRKKLGCQSFKWL DNIYEMQIPGPNAPQQPVLINRGPKRPRVLQRGRLYHLQT
 NKCLVAQGRSSQKGLVLLKTCDYGDPTQVWIYNEDHELILNLLCLDMSETRSSDPPRLMKCHGSGGSQ
 QWTFGKNNRLYQVSVGQCLRVMMLMDQKGYVGMALCDGSSSQWRLEG

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: BC021504

ORF Size: 1826 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:

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: [BC021504](#), [AAH21504](#)

RefSeq Size: 2557 bp

RefSeq ORF: 1826 bp

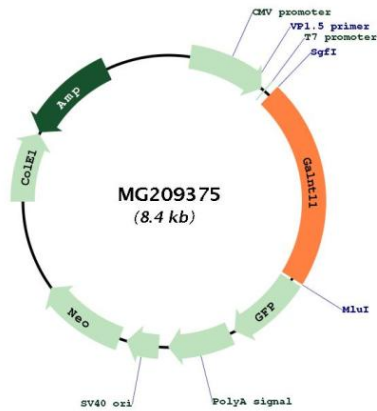
Locus ID: 231050

Cytogenetics: 5 A3

Gene Summary:

Polypeptide N-acetylgalactosaminyltransferase that catalyzes the initiation of protein O-linked glycosylation and is involved in left/right asymmetry by mediating O-glycosylation of NOTCH1. O-glycosylation of NOTCH1 promotes activation of NOTCH1, modulating the balance between motile and immotile (sensory) cilia at the left-right organiser (LRO). Polypeptide N-acetylgalactosaminyltransferases catalyze the transfer of an N-acetyl-D-galactosamine residue to a serine or threonine residue on the protein receptor. Displays the same enzyme activity toward MUC1, MUC4, and EA2 than GALNT1. Not involved in glycosylation of erythropoietin (EPO) (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG209375