

Product datasheet for **MG210059**

Gyltl1b (BC096655) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Gyltl1b (BC096655) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Gyltl1b |
| Synonyms: | Largel, mKIAA4105 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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**ORF Nucleotide
Sequence:**

>MG210059 representing BC096655
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCCCCGAGGTCGTCCCCGGCAATGGGGCCGCCGTGCTGCTGCTGCTGTTGCTAGTGGTTG
 GCTTCTTCTGTTTCGGCCGGGACCCGGATTATGGACTGGGCACAACCTGCTACCCTCGATGAAGACCCGTA
 CAGGAGTCGCAACCTCTCCGCTCCAGCCCGCAGCTTCTACTGCCACCAAGTGCAGAGATGTTGCATGTG
 GCTATCGTGTGTGCGGGATACAACCTCCAGCCGAGAGATTATTACCCTAACGAAGTCCCTGCTATTCTACA
 GGAAAAATCCGCTGCACCTCCACCTGATAACTGATGCCGTAGCCAGAAACATCCTGGAGACTCTTCCG
 AACATGGATGGTCCAGCGGTGGTGGTCAGCTTCTATGATGCGGAAGAACTCAAGCCCCTGGTCTCCTGG
 ATCCCCAACAACTACTCTGGCCTCTATGGGCTAATGAAGCTAGTACTTCCCAGCATCCTGCCTCCCA
 GCCTGGCCCGAGTCATCGTCTGGATACCGACGTCACCTTCTCCTCTGACATTGTGGAGCTCTGGGCACT
 CTTTGATCATTTTTCTGACAAGCAGGTGGTCCGGTCTCGTGGAGAACCAGAGCGACTGGTACCTGGGCAAC
 CTCTGGAAGAACCATAGGCCCTGGCCTGCCTTGGGCAGGGGATTTAACACAGGTGTGATCCTGCTGTGGC
 TGGACAGGCTCCAGCAAACCTGGCTGGGAGCAGATGTGGAAGGTGACAGCCAAACGAGAGCTGCTCACTCT
 GATGGCTACTTTCCTGGCTGACCAGGACATCTTCAATGCGGTGATCAAGGAGCACCCCATCTGGTGCAC
 CCCCTGCCTGTGTCTGGAACGTGCAGCTGTGACACCACACTCGGGCTGAGCGCTGCTACCTGGAAGCAG
 CTGACCTCAAAGTGATCCACTGGAATTCACCAAGAAGCTTCGAGTGAAGAACAAGCAGCAGAGAATTCTT
 CCGTAATCTGCACTTGACCTTTCTGGGGTATGATGGGAAGCTACTGCGAAGAGAGCTCTTTGGATGCCCC
 AACAGTTCCTCCTGGGGCCGAGCAGTTGCAACAGGCCCTAACACAGCTGGATGAGGAAGAGCCCTGCT
 TTGAGTTCGCCAACAGCAGCTCACTGTGCACCCGGTGCACATCACCTTCTGCCCCACCAGCCGCCACC
 TCCCCAGCCTCACGATGTCACCTTGGTGGCCCAACTCTCTATGGACCCGGCTGCAGATGCTGGAAGCCCTG
 TGCAGGCACTGGCCAGGCCCATGAGCCTGGCCTGTACCTGACAGATGAAGAGGCTCAACAATTTCTTC
 ATTTTGTGGAACGTGCGCAGTCTCTCTATGAGGAAGGATGTGGCCTACCATGTAGTGTACCGGGACGG
 TCCACTCTATCCAGTCAACCAGCTCCGCAACGTGGCCTTGGCCAGGCTCTCACACCCTACGTCTTCCTC
 AGTGATATTGACTTCTTACCTGCCTACTCCCTCTACGACTACCTCAGGGCTTCTATCGAGCAGCTGGAGC
 TGGACAGTCGGCGCAAGACTGCTTTGGTGGTGCCTGCATTTGAGACCCTACACTACCGGTTACAGCTTCCC
 AAACCTAAGGCAGAGCTGTTGACGTTACTGGATGCCGGCTCCCTTACACCTTTAGGTACCACGAGTGG
 CCACAGGGTCACTCATCCACAGACTATCCCGCTGGCGGGAAGCCAGGCACCATACAGTGTGCAGTGGT
 CAGCTGACTATGAACCCTACGTGGTGGTACCCCGTACTGCCCCCGTTATGATCCTCGCTTTGTGGGATT
 TGGCTGGAACAAGGTGGCCACATCATAGAGTTGGATGCTCAGGAATATGAATTCCTGGTACTTCTGAG
 GCCTTCTCTATCCACTTGCCCCACGCTCCAAGTCTTGACATCTCCCGCTTCCGCTCCAGCCCCACCTACC
 GCAACTGTCTCCAGGCCCTCAAGGAAGAGTTCCACCAGGACTTGTCAAGGCGCTATGGGTCTGCAGCCCT
 GAAATACCTCACTGCCCTGCAGCAGGCCCGAAGTCGGGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG210059 representing BC096655
 Red=Cloning site Green=Tags(s)

MLPRGRPRAMGAAVLLLLLLL VVGFFLFG RDPDYLGTTATLDEDPYRSRNL SASSPQ LLLPPKCEMLHV
 AIVCAGYNS SREIITLTKSLLFYRKNPLHLHLITDAVARNILETLFRTWMVPAVVVSFYDAEELKPLVSW
 IPNKHYSGLYGLMKLVLP SILPPSLARVIVLDTDVTFSSDIVELWALFDHFSDKQVVGLVENQSDWYLG
 LWNHRPW PALGRGFNTGVILLWLDRLQQTGW EQMWKVTAKRELLTLMATSLADQDIFNAV IKEHPHLVH
 PLPCVWNVQLSDHTRAERCYLEAADLKVIHWNSPKL RLVKNKHAEFFRNLHLTFLGYDGKLLRRELF GCP
 NQFPFGAEQLQ QALTQLDEEPCFEFRQQQLTVHRVHITFLPHQPPPPQPHDVTLVAQLSMDRLQMLEAL
 CRHWPGMSLALYLTDEEAQQFLHFVETSPVLSMRKDVAYHV VYRDGPLYPVNQLRVALAQA LTPYVFL
 SDIDFLPAYSLYDYL RASIEQLELDSRRKTALVPAFETLHYRFSFPNSKAELLTLLDAGSLHTFRYHEW
 PQGHSSTDYSRWREAPYSVQWSADYEPYVVVPRDCPRYDPRFVGF GWNKVAHIIE LDAQEYEFVLVPE
 AFSIHLPHAPSLDISRFRSSPTYRNCLQALKEEFHQDLSRRYGSAA LKYLTA LQQARSRA

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: BC096655

ORF Size: 2072 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: [BC096655](#), [AAH96655](#)

RefSeq Size: 2398 bp

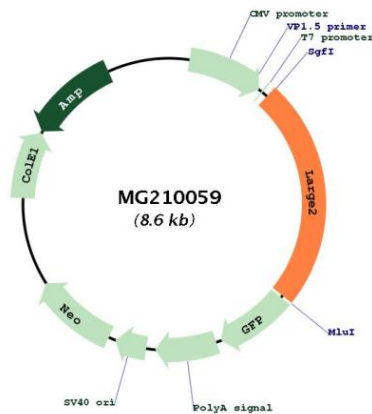
RefSeq ORF: 2072 bp

Locus ID: 228366

Cytogenetics: 2 E1

Gene Summary: Bifunctional glycosyltransferase with both xylosyltransferase and beta-1,3-glucuronyltransferase activities involved in the biosynthesis of the phosphorylated O-mannosyl trisaccharide (N-acetylgalactosamine-beta-3-N-acetylglucosamine-beta-4-(phosphate-6-)mannose), a carbohydrate structure present in alpha-dystroglycan (DAG1). Phosphorylated O-mannosyl trisaccharid is required for binding laminin G-like domain-containing extracellular proteins with high affinity. Elongates the glucuronyl-beta-1,4-xylose-beta disaccharide primer structure by adding repeating units [-3-Xylose-alpha-1,3-GlcA-beta-1-] to produce a heteropolysaccharide. Has a higher activity toward alpha-dystroglycan than LARGE (PubMed:15958417).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG210059