

Product datasheet for **RN205806**

Large2 (NM_199107) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Large2 (NM_199107) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Large2
Synonyms:	Gyltl1b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN205806 representing NM_199107
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCCTCAGGGCGCCCCGGGCACTGGGGCCGCACTGCTGTTGTTGCTGCTGCTAGTGGTTGGCT
 TCTTCCTATTCGGCCGGGACCCGGAGTATGGACTAGGCACAACCGCCACCCTCGATGGAGACCCGTACGG
 GAGCCGCAACCGCTCCACCTCCAGCCTGCAGCTTCTACTGCCACCCAAGTGCAGATGTTGCATGTGGCC
 ATCGTGTGTGCGGGATACAACCTCCAGCCGAGAGATCATCACCTAATGAAGTCCGTGCTATTCTACAGGA
 AAAATCCGCTGCACCTCCACCTGATAACCGATGCCGTAGCCAGAAACATCCTGGAGACACTCTTCCGAAC
 ATGGATGGTACCAGCTGTGGTGCAGCTTCTATGATGCTGAAGAGCTCAAGCCCCTGGTTTCTGGATT
 CCCAACAAAGCACTACTCTGGCCTCTATGGGCTCATGAAGCTAGTACTTCCAGCGTCTGCTCTCAGCC
 TGGCCCGAGTCATTGTCCTGGACACCGATGTCACCTTCTCCTCTGACATTATGGAGCTCTGGGCACTCTT
 TGGTCATTTTTCTGACAAGCAGGTGGTCGGTCTTGTGGAGAACCAGAGCGACTGGTACCTGGGCAACCTC
 TGGAAAGAACCATAGGCCCTGGCCTGCCTTGGGCAGGGGATTTAACACAGGTGTGATCCTGCCTTGGCTGG
 ACAGATTACAGCAGATTGGCTGGGAGCAGATGTGGAAGCTGACGGCCAAACGGGAGCTGCTTACTTTGAC
 TGCCACTTCTTGGCTGACCAGGACATCTCAATGCCGTCAAGGAGCATCCCAGCTGGTGCATCCC
 CTGCCCTGTGCTGGAACGTGCAGCTGTGAGCCACACTCTGGCTGAGCGCTGCTACTTGGAAAGCAGCTG
 ACCTCAAAGTGATCCACTGGAATTCACCAAGAAGCTTCGAGTGAAGAACAAGCATGCAGAATCTTCCG
 TGATCTACACTTGACCTTCTGGGGTTGACGGGAAGCTACTGTGTAGAGAGCTCTTGGTTGCCCAAC
 CAGTTCCTCTGGGGTTGAGCAGTTGCAACAGGCCCTAGCACAGCTGGATGAGGAAGAGCCCTGCTTTG
 AGTTCGCCAACAGCAGCTCACTGTGCACCGGTACACATCACCTTTCTGTCTCACCAGCCGACCTCC
 TGGCCCTCAGATGTACCTTGGTGGCCAGCTCTCTATGGACCGGCTGCAGATGCTGGAAGCCCTGTGC
 AGGCACTGGCGGGTCCCATGAGCCTGGCCTTGTACCTGACAGACGCAGAGGCTCAACAGTTCCTGCGTT
 TCGTGGAGACGTACCCAGTACTCTCTGCAAGGAAGGATGTGGCCTATCATGTAGTGTACCGGACGGCCC
 CCTCTACCAGTCAACCAGCTCCGAAATGTGGCCTTGGCCAGGCTCTCACACCTACGTCTTCTCAGT
 GATATTGACTTCTTACCTGCCTACTCCCTCTATGACTACCTCAGGGCCTCTATTGAGCAACTGGCGCTGG
 GCAGGCGGCAGAGGAAGGCTGCTTGGTAGTGCCTGCATTTGAGACCCTGCACTACCGTTTCAGCTTCCC
 AAATCTAAGGCAGAGTTGTTGACCTTACTGGATGCTGGCTCTCCACACCTTTAGGTACCACGAGTGG
 CCACAGGGTCATGCATCCACAGACTATACCCGCTGGCGGGAAGCCAGGCACCATACCGAGTGCAGTGGT
 CAGCTGACTATGAGCCTTACGTGGTGGTACCCCGTACTGTCCCGCTATGACCCCTGCTTTGTGGGCTT
 TGGCTGGAACAAGGTGGCCCATATCATAGAGCTGGATGCTCAGGAATATGAATTCCTGGTACTTCTGAG
 GCCTTCTCTATCCACTTGCCCATGCCCAAGTCTGGACATCTCCCGCTTCCGCTCCAGCCCCACCTACC
 GCGACTGCCTCCAGGCCCTCAAGGAGGAGTTCACCAGGACTTGTCTAGGCGCTATGGGTCTGCAGCCCT
 CAATACCTCACTGCCCTGCAGCAGTCCCGAAGCCGGGCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_199107

Insert Size: 2073 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:	<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:	<u>NM_199107.1</u> , <u>NP_954538.1</u>
RefSeq Size:	2455 bp
RefSeq ORF:	2073 bp
Locus ID:	311202
UniProt ID:	<u>Q6P7A1</u>
Cytogenetics:	3q24
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.[UniProtKB/Swiss-Prot Function]