

Product datasheet for **SC337209**

LARGE2 (NM_001300722) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LARGE2 (NM_001300722) Human Untagged Clone
Tag:	Tag Free
Symbol:	LARGE2
Synonyms:	GYLTL1B; PP5656
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001300722, the custom clone sequence may differ by one or more nucleotides

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ATGCTGCCCGGAGGGCGCCCCGGGGCGCTGGGGCCGCCGCTGTTGCTGCTGCTGCTGCTCGGAT
TCCTCCTGTTTCGACGGGAGGCTGCGGAGAGCCGCCGCCCTCGACGGAGACCCGGGGCCGGCCCCGGGA
CCACAACCGCTCCGACTCGGGCCCGAGCCGCCGCCGCCCAAGTGCAGCTCTTGATGTGGCCATC
GTGTGTGCGGGGCATAACTCCAGCCGAGACGTCATCACCCCTGGTGAAGTCCATGCTCTTCTACAGGAAA
ATCCACTGCACCTCCACTTGGTACTGACGCCGTGGCCAGAAACATCCTGGAGACGCTCTTCCACACATG
GATGGTGCCTGTGTCCGTGTCAGCTTTTATCATGCCGACCAGCTCAAGCCCCAGGTCTCCTGGATCCCC
AACAAAGCACTACTCCGGCCTCTATGGGTAATGAAGCTGGTGTGCCAGTGCCTTGCTGAGCTGG
CCCGCGTCATTGTCTGGACACGGATGTCACCTTCGCCTCTGACATCTCGGAGCTCTGGGCCCTCTTTGC
TCACTTTTCTGACACGCAGGCGATCGGTCTTGTGGAGAACCAGAGTACTGGTACCTGGGCAACCTCTGG
AAGAACCACAGGCCCTGGCTGCCTTGGCCGGGGATTTAACACAGGTGTGATCCTGCTGCGGCTGGACC
GGCTCCGCGAGGCTGGCTGGGAGCAGATGTGGAGGCTGACAGCCAGGCGGGAGCTCCTTAGCCTGCCTGC
CACCTCACTGGCTGACCAGGACATCTTCAACGCTGTGATCAAGGAGCACCCGGGGCTAGTGACAGCTCTG
CCTTGTGTCTGGAATGTGCAGCTGTCAGATCACACACTGGCCGAGCGCTGCTACTCTGAGGCGTCTGACC
TCAAGGTGATCCACTGGAACACCAAAGAAGCTTCGGGTGAAGAACAAGCATGTGGAATCTTCCGCAA
TTTCTACCTGACCTTCTGGAGTACGATGGGAACCTGCTGCGGAGAGAGCTCTTTGTGTGCCCGAGCCAG
CCCCACCTGGTGTGAGCAGTTGCAGCAGGCCCTGGCACAACCTGGACGAGGAAGACCCCTGCTTTGAGT
TCCGGCAGCAGCAGCTCACTGTGCACCGTGTGCATGTCACTTTCTGCCCCATGAACCGCCACCCCCCG
GCCTCACGATGTACCCCTTGTGGCCAGCTGCCATGGACCGGCTGCAGATGTTGGAAGCCCTGTGCAGG
CACTGGCCTGGCCCCATGAGCCTGGCCTTGTACCTGACAGACGAGAAGCTCAGCAGTTCTGCATTTCTG
TCGAGGCCCTCACCAAGTGTCTGCTGCCCGCAGGACGTGGCTACCATGTGGTGTACCGTGAGGGGCCCT
ATACCCCGTCAACCAGCTTCGCAACGTGGCCTTGGCCAGGCCCTCACGCCTTACGTCTTCTCAGTGAC
ATTGACTTCTGCCTGCCTATTCTCTACGACTACCTCAGGGCCTCCATTGAGCAGCTGGGGCTGGGCA
GCCGGCGCAAGGCAGCACTGGTGGTGCCGGCATTCCGAGACCTGCGCTACCGCTTCCAGCTTCCCCATT
CAAGGTGGAGCTGTTGGCCTTGTGGATGCGGGCACTCTACACCTTCCAGTACCACGAGTGGCCCCGA
GGCCACGCACCCACAGACTATGCCCGTGGCGGGAGGCTCAGGCCCGTACCGTGTGCAATGGGCGGCCA
ACTATGAACCCTACGTGGTGGTGCCACGAGACTGTCCCGCTATGATCCTCGCTTTGTGGCTTCGGCTG
GAACAAAGTGGCCACATTGTGGAGCTGGATGCCAGGAATATGAGCTCCTGGTGTGCCGAGGCTTC
ACCATCCATCTGCCCCACGCTCCAAGCCTGGACATCTCCCGCTTCCGCTCCAGCCCCACCTATCGTGACT
GCCTCCAGGCCCTCAAGGACGAATTCCACCAGGACTTGTCCCGCCACCATGGGGTGTGCTGCCCTCAATA
CCTCCAGCCCTGCAGCAGCCCCAGAGCCTGCCCGAGGCTGA
    
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Restriction Sites: SgfI-MluI

ACCN: NM_001300722

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_001300722.1, NP_001287651.1</u>
RefSeq Size:	2473 bp
RefSeq ORF:	2073 bp
Locus ID:	120071
UniProt ID:	<u>Q8N3Y3</u>
Cytogenetics:	11p11.2
Protein Families:	Transmembrane
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) lacks an in-frame segment compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a.</p>