

Product datasheet for **SC100883**

LARGE2 (NM_152312) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LARGE2 (NM_152312) Human Untagged Clone
Tag:	Tag Free
Symbol:	LARGE2
Synonyms:	GYLTL1B; PP5656
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_152312 edited
 ATGCTGCCCGAGGGCGCCCCGGGCGCTGGGGCCGCCGCGCTGTTGCTGCTGCTGCTG
 CTGCTCGGATTCCTCCTGTTCCGGTGGGGACCTGGGGTGTGAGCGCCGCAAGCCTGGCGGG
 CGAGCGGGGGCCCCGGGATGCTTCCCCGGCCGCTCATGCCACGTGTCCCCCAGACGGG
 AGGCTGCGGAGAGCCCGCCCTCGACGGAGACCCGGGGCCGGCCCCGGGGACCACAAC
 CGCTCCGACTGCGGCCCGCAGCCGCCCGCCGCCCCAAGTGCGAGCTCTTGATGTGGCC
 ATCGTGTGTGCGGGGCATAAATCCAGCCGAGACGTATCACCTGGTGAAGTCCATGCTC
 TTCTACAGGAAAAATCCACTGCACCTCCACTTGGTGACTGACGCCGTGGCCAGAAACATC
 CTGGAGACGCTCTTCCACACATGGATGGTGCCTGCTGTCCGTGTGAGCTTTTATCATGCC
 GACCAGCTCAAGCCCCAGGTCTCCTGGATCCCCAACAAGCACTACTCCGGCCTCTATGGG
 CTAATGAAGCTGGTGTGCCAGTGCCTTGCTGCTGAGCTGGCCGCGTCATTGTCTG
 GACACGGATGTCACCTTCGCTCTGACATCTCGGAGCTCTGGCCCTCTTTGCTCACTTT
 TCTGACACGCAGGCGATCGTCTTGTGGAGAACCAGAGTACTGGTACCTGGGCAACCTC
 TGGAAGAACCACAGGCCCTGGCCTGCCTTGGGCCGGGGATTTAACACAGGTGTGATCCTG
 CTGCGGCTGGACCGGCTCCGGCAGGCTGGCTGGGAGCAGATGTGGAGGCTGACAGCCAGG
 CGGGAGCTCCTTAGCCTGCCTGCCACCTACTGGCTGACCAGGACATCTTCAACGCTGTG
 ATCAAGGAGCACCCGGGGCTAGTGCAGCGTCTGCCTTGTGTCTGGAATGTGCAGCTGTCA
 GATCACACACTGGCCGAGCGCTGCTACTCTGAGGCGTCTGACCTCAAGGTGATCCACTGG
 AACTCACCAAAGAAGCTTCGGGTGAAGAACAAGCATGTGGAATCTTCCGCAATTTCTAC
 CTGACCTTCTGGAGTACGATGGGAACCTGCTGCGGAGAGAGCTTTTGTGTGCCCCAGC
 CAGCCCCACCTGGTGTGAGCAGTTCAGCAGGCCCTGGCACAACCTGGACGAGGAAGAC
 CCCTGCTTTGAGTTCGGCAGCAGCAGCTCACTGTGCACCGTGTGCATGTCACCTTCTCTG
 CCCCATGAACCGCCACCCCGCCGCTCACGATGTACCCTTGTGGCCAGCTGTCCATG
 GACCGGCTGCAGATGTTGGAAGCCCTGTGCAGGCACTGGCTGGCCCCATGAGCCTGGCC
 TTGTACCTGACAGACGCAGAAGCTCAGCAGTTCCTGCATTTCTGCGAGGCTCACCAGTG
 CTTGCTGCCCGCAGGACGTGGCCTACCATGTGGTGTACCCTGAGGGGCCCTATACCCC
 GTCAACCAGCTTCGCAACGTGGCCTTGGCCAGGCCCTCACGCCTTACGTCTTCTCAGT
 GACATTGACTTCTGCCTGCCTATTCTCTCTACGACTACCTCAGGGCTCCATTGAGCAG
 CTGGGGCTGGGCAGCCGGCGCAAGGCAGCACTGGTGGTCCGGCATTGAGACCTGCGC
 TACCGCTTCACTTCCCCATTCCAAGGTGGAGCTGTTGGCCTTGTGGATGCGGGCACT
 CTCTACACCTTCAAGTACCACGAGTGGCCCCGAGGCCACGCACCCACAGACTATGCCCGC
 TGGCGGGAGGCTCAGGCCCGTACCGTGTGCAATGGGCGCCAATATGAACCCTACGCTG
 GTGGTGCCACGAGACTGTCCCCGCTATGATCCTCGCTTTGTGGGCTTCGGCTGGAACAAA
 GTGGCCACATTGTGGAGCTGGATGCCAGGAATATGAGCTCCTGGTGTGCCCGAGGCC
 TTCACCATCCATCTGCCCCACGCTCCAAGCCTGGACATCTCCCGCTTCCGCTCCAGCCCC
 ACCTATCGTGACTGCCTCCAGGCCCTCAAGGACGAATTCACCAGGACTTGTCCCGCCAC
 CATGGGCTGCTGCCCTCAAATACCTCCAGCCCTGCAGCAGCCCCAGAGCCCTGCCCGA
 GGCTGA

Restriction Sites: NotI-NotI

ACCN: NM_152312

Insert Size: 2200 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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_152312.2 , NP_689525.2
RefSeq Size:	2528 bp
RefSeq ORF:	2166 bp
Locus ID:	120071
UniProt ID:	Q8N3Y3
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 (1) represents the longest transcript and encodes the longer isoform (a). Variants 1 and 2 both encode the same isoform (a).</p>