

## Product datasheet for **MC220532**

### Large2 (NM\_172670) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Large2 (NM_172670) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Large2
Synonyms:	5730485C17Rik; AI891893; Gyltl1b; Largel; mKIAA4105
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC220532 representing NM\_172670  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCTGCCCCGAGGTCGCCCCCGGCAATGGGGCCGCCGTGCTGCTGCTGCTGTTGCTAGTGGTTG  
 GCTTCTTCTGTTTCGGCCGGGACCCGGATTATGGACTGGGCACAACCTGCTACCCTCGATGAAGACCCGTA  
 CAGGAGTCGCAACCTCTCCGCTCCAGCCCGCAGCTTCTACTGCCACCAAGTGCAGATGTTGCATGTG  
 GCTATCGTGTGTGCGGGATACAACCTCCAGCCGAGAGATTATTACCCTAACGAAGTCCCTGCTATTCTACA  
 GGAAAAATCCGCTGCACCTCCACCTGATAACTGATGCCGTAGCCAGAAACATCCTGGAGACTCTTCCG  
 AACATGGATGGTCCAGCGGTGGTGGTTCAGCTTCTATGATGCGGAAGAACTCAAGCCCTGGTCTCCTGG  
 ATCCCAACAACACTACTCTGGCCTCTATGGGCTAATGAAGCTAGTACTTCCCAGCATCCTGCCTCCCA  
 GCCTGGCCCGAGTCATCGTCTGGATACCGACGTCACCTTCTCCTCTGACATTGTGGAGCTCTGGGCACT  
 CTTTGATCATTTTTCTGACAAGCAGGTGGTCCGGTCTCGTGGAGAACCAGAGCGACTGGTACCTGGGCAAC  
 CTCTGGAAGAACCATAGGCCCTGGCCTGCCTTGGGCAGGGGATTTAACACAGGTGTGATCCTGCTGTGGC  
 TGGACAGGCTCCAGCAAACCTGGCTGGGAGCAGATGTGGAAGGTGACAGCCAAACGAGAGCTGCTCACTCT  
 GATGGCTACTTTCCTGGCTGACCAGGACATCTTCAATGCGGTTCATCAAGGAGCACCCCATCTGGTGCAC  
 CCCCTGCCCTGTGTCTGGAACGTGCAGCTGTGACACCACACTCGGGCTGAGCGCTGCTACCTGGAAGCAG  
 CTGACCTCAAAGTGATCCACTGGAATTCACCAAAGAAGCTTCGAGTGAAGAACAAGCAGCAGAGAATTCTT  
 CCGTAATCTGCACTTGACCTTTCTGGGGTATGATGGGAAGCTACTGCGAAGAGAGCTCTTTGGATGCCCC  
 AACAGTTCCTCCTGGGGCCGAGCAGTTGCAACAGGCCCTAACACAGCTGGATGAGGAAGAGCCCTGCT  
 TTGAGTTCCGCCAACAGCAGCTCACTGTGCACCGGGTGCACATCACCTTCTGCCCCACCAGCCGCCACC  
 TCCCCAGCCTCACGATGTCACCTTGGTGGCCCAACTCTCTATGGACCGGCTGCAGATGCTGGAAGCCCTG  
 TGCAGGCACTGGCCAGGCCCATGAGCCTGGCCTGTACCTGACAGATGAAGAGGCTCAACAATTTCTTC  
 ATTTTGTGGAACGTGCGCAGTCTCTATGAGGAAGGATGTGGCCTACCATGTAGTGTACCGGGACGG  
 TCCACTCTATCCAGTCAACCAGCTCCGCAACGTGGCCTTGGCCAGGCTCTCACACCCTACGTCTTCCTC  
 AGTGATATTGACTTCTTACCTGCCTACTCCCTCTACGACTACCTCAGGGCTTCTATCGAGCAGCTGGAGC  
 TGGACAGTCGGCGCAAGACTGCTTTGGTGGTGCCTGCATTTGAGACCCTACACTACCGGTTACAGTCTCC  
 AAACCTAAGGCAGAGCTGTTGACGTTACTGGATGCCGGCTCCCTTACACCTTTAGGTACCACGAGTGG  
 CCACAGGGTCACTCATCCACAGACTATCCCGCTGGCGGGAAGCCAGGCACCATACAGTGTGCAGTGGT  
 CAGCTGACTATGAACCTACGTGGTGGTACCCCGTACTGCCCCCGTTATGATCCTCGCTTTGTGGGATT  
 TGGCTGGAACAAGGTGGCCACATCATAGAGTTGGATGCTCAGGAATATGAATTCCTGGTACTTCTGAG  
 GCCTTCTCTATCCACTTGCCCCACGCTCCAAGTCTTGACATCTCCCGCTTCCGCTCCAGCCCCACCTACC  
 GCAACTGTCTCCAGGCCCTCAAGGAAGAGTTCCACCAGGACTTGTCAAGGCGCTATGGGTCTGCAGCCCT  
 GAAATACCTCACTGCCCTGCAGCAGGCCGAAGTCGGGCC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_172670

**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).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_172670.3</a></u> , <u><a href="#">NP_766258.2</a></u>
<b>RefSeq Size:</b>	2453 bp
<b>RefSeq ORF:</b>	2073 bp
<b>Locus ID:</b>	228366
<b>UniProt ID:</b>	<u><a href="#">Q5XPT3</a></u>
<b>Cytogenetics:</b>	2 E1
<b>Gene Summary:</b>	<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 (PubMed:15958417).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes isoform 1. CCDS Note: The coding region has been updated to represent an alternate exon combination and to extend the N-terminus to one that is more supported by available conservation data.</p>