

## Product datasheet for **MC228688**

### Large2 (NM\_001290773) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Large2 (NM_001290773) 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:** >MC228688 representing NM\_001290773  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGCCCCGAGGTCGCCCCCGGCAATGGGGCCGCCGTGCTGCTGCTGCTGTTGCTAGTGGTTG  
 GCTTCTTCTGTTTCGGCCGGGACCCGGATTATGGACTGGGCACAACCTGCTACCCTCGATGAAGACCCGTA  
 CAGGAGTCGCAACCTCTCCGCTCCAGCCCGCAGCTTCTACTGCCACCAAGTGCAGGTAATGTTGCAT  
 GTGGCTATCGTGTGTGCGGGATACAACCTCCAGCCGAGAGATTATTACCCTAACGAAGTCCCTGCTATTCT  
 ACAGGAAAAATCCGCTGCACCTCCACCTGATAACTGATGCCGTAGCCAGAAAACCTCGGAGACTCTT  
 CCGAACATGGATGGTCCAGCGGTGGTGGTCAGCTTCTATGATGCGGAAGAAGTCAAGCCCTGGTCTCC  
 TGGATCCCCAACAAACACTACTCTGGCCTCTATGGGCTAATGAAGCTAGTACTTCCAGCATCTGCCTC  
 CCAGCCTGGCCCGAGTCATCGTCTGGATACCGACGTCACTTTCTCTGACATTGTGGAGCTCTGGGC  
 ACTCTTTGATCATTTTTCTGACAAGCAGGTGGTGGTCTCGTGGAGAACCAGAGCGACTGGTACCTGGGC  
 AACCTCTGGAAGAACCATAGGCCCTGGCCTGCCTTGGGCAGGGGATTTAACACAGGTGTGATCCTGCTGT  
 GGCTGGACAGGCTCCAGCAAACCTGGCTGGGAGCAGATGTGGAAGGTGACAGCCAAACGAGAGCTGCTCAC  
 TCTGATGGCTACTTTCCTGGCTGACCAGGACATCTTCAATGCGGTGATCAAGGAGCACCCCATCTGGTG  
 CACCCCTGCCCTGTGTCTGGAACGTGCAGCTGTGAGCCACACTCGGGCTGAGCGCTGCTACCTGGAAG  
 CAGCTGACCTCAAAGTGTCCACTGGAATTCACCAAAGAAGCTTCGAGTGAAGAACAAGCACGCAGAATT  
 CTTCCGTAATCTGCACTTGACCTTTCTGGGGTATGATGGGAAGCTACTGCGAAGAGAGCTTTTGGATGC  
 CCCAACCAAGTTCCTCCTGGGGCCGAGCAGTTGCAACAGGCCCTAACACAGCTGGATGAGGAAGAGCCCT  
 GCTTTGAGTTCGCAACAGCAGCTCACTGTGCACCGGGTGCACATCACCTTCTGCCCCACAGCCGCC  
 ACCTCCCCAGCCTCACGATGTCACCTTGGTGGCCCAACTCTCTATGGACCGGCTGCAGATGCTGGAAGCC  
 CTGTGCAGGCACTGGCCAGGCCCATGAGCCTGGCCTGTACCTGACAGATGAAGAGGCTCAACAATTTT  
 TTCATTTTGTGGAACGTGCGCCAGTGTCTCTATGAGGAAGGATGTGGCCTACCATGTAGTGTACCGGGA  
 CGGTCCACTCTATCCAGTCAACCAGCTCCGCAACGTGGCCTTGGCCAGGCTCTCACACCCTACGTCTT  
 CTCAGTGATATTGACTTCTTACCTGCCTACTCCCTCTACGACTACCTCAGGGCTTCTATCGAGCAGCTGG  
 AGCTGGACAGTCGGCGAAGACTGCTTTGGTGGTGCCTGCATTTGAGACCCTACACTACCGGTTACGCTT  
 CCCAAACTCTAAGGCAGAGCTGTTGACGTTACTGGATGCCGGCTCCCTTACACCTTTAGGTACCACGAG  
 TGCCACAGGGTCACTCATCCACAGACTATTCCCCTGGCCGGAAGCCAGGCACCATACAGTGTGCAGT  
 GGTGAGCTGACTATGAACCTACGTGGTGGTACCCGTGACTGCCCCGTTATGATCCTCGCTTTGTGGG  
 ATTTGGCTGGAACAAGGTGGCCACATCATAGAGTTGGATGCTCAGGAATATGAATTCCTGGTACTTCT  
 GAGGCCTTCTCTATCCACTTGGCCACGCTCCAAGTCTTGACATCTCCGCTTCCGCTCCAGCCCCACCT  
 ACCGCAACTGTCTCCAGGCCCTCAAGGAAGAGTCCACCAGGACTGTCAAGGCGCTATGGGTCTGCAGC  
 CCTGAAATACCTCACTGCCCTGCAGCAGGCCCGAAGTCCGGCC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001290773

**Insert Size:** 2076 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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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_001290773.1</a></u> , <u><a href="#">NP_001277702.1</a></u>
<b>RefSeq Size:</b>	2456 bp
<b>RefSeq ORF:</b>	2076 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 (3) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1, resulting in an isoform (3) that is 1 aa longer than isoform 1.</p>