

Product datasheet for **MC220205**

Large2 (NM_001166633) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Large2 (NM_001166633) 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: >MC220205 representing NM_001166633
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCCCCGAGGTCGCCCCCGGCAATGGGGCCGCGTGTCTGCTGCTGCTGTTGCTAGTGGTTG
 GCTTCTTCCTGTTGCGCCGGGACCCGGATTATGGACTGGGCACAACCTGCTACCCTCGATGAAGACCCGTA
 CAGGAGTCGCAACCTCTCCGCTCCAGCCCGCAGCTTCTACTGCCACCCAAGTGCAGATGTTGCATGTG
 GCTATCGTGTGTGCGGGATACAACCTCCAGCCGAGAGATTATTACCCTAACGAAGTCCCTGCTATTCTACA
 GGAAAAATCCGCTGCACCTCCACCTGATAACTGATGCCGTAGCCAGAAACATCCTGGAGACTCTTCCG
 AACATGGATGGTCCAGCGGTGGTGGTCACTTCTATGATGCGGAAGAACTCAAGCCCTGGTCTCCTGG
 ATCCCCAACAACTACTCTGGCCTCTATGGGCTAATGAAGCTAGTACTTCCCAGCATCTGCCTCCCA
 GCCTGGCCCGAGTCATCGTCTGGATACCGACGTCACCTTCTCCTCTGACATTGTGGAGCTCTGGGCACT
 CTTTGATCATTTTTCTGGTGTGATCCTGTGTGGCTGGACAGGCTCCAGCAAACCTGGCTGGGAGCAGATG
 TGGAAAGGTGACAGCCAAACGAGAGCTGCTCACTCTGATGGCTACTTCTTGGCTGACCAGGACATCTTCA
 ATGCGGTCATCAAGGAGCACCCCATCTGGTGCACCCCTGCCCTGTGTCTGGAACGTGCAGCTGTGAGA
 CCACACTCGGGCTGAGCGCTGCTACCTGGAAGCAGCTGACCTCAAAGTGATCCACTGGAATTCACCAAAG
 AAGCTTCGAGTGAAGAACAAGCACGCAGAAATCTTCCGTAATCTGCACCTGACCTTTCTGGGGTATGATG
 GGAAGCTACTGCGAAGAGAGCTCTTTGGATGCCCAACCAAGTTCCTCCTGGGGCCGAGCAGTTGCAACA
 GGCCCTAACACAGCTGGATGAGGAAGAGCCCTGCTTTGAGTTCGCCAACAGCAGCTCACTGTGCACCGG
 GTGCACATCACCTTCTGCCCCACCAGCCGACCTCCCAGCCTCACGATGTCACCTTGGTGGCCCAAC
 TCTCTATGGACCGGCTGCAGATGCTGGAAGCCCTGTGCAGGCACTGGCCAGGCCCATGAGCTGGCCTT
 GTACCTGACAGATGAAGAGGCTCAACAATTTCTCATTGTTGGAAACGTCCGCAAGTCTCTATGAGG
 AAGGATGTGGCCTACCATGTAGTGTACCGGACGGTCCACTCTATCCAGTCAACCAGCTCCGCAACGTGG
 CCTTGGCCAGGCTCTCACACCCTACGTCTTCTCAGTGATATTGACTTCTTACCTGCCTACTCCCTCTA
 CGACTACCTCAGGGCTTCTATCGAGCAGCTGGAGCTGGACAGTCCGCGCAAGACTGCTTTGGTGGTGCCT
 GCATTTGAGACCCTACACTACCGGTTCACTTCCCAAACCTAAGGCAGAGCTGTTGACGTTACTGGATG
 CCGGCTCCCTTACACCTTTAGGTACCACGAGTGGCCACAGGGTCACTCATCCACAGACTATTCCCGCTG
 GCGGGAAGCCAGGCACCATAACAGTGTGCAGTGGTCACTGACTATGAACCTACGTGGTGGTACCCCGT
 GACTGCCCCGTTATGATCCTCGCTTTGTGGGATTTGGCTGGAACAAGGTGGCCACATCATAGAGTTGG
 ATGCTCAGGAATATGAATTCCTGGTACTTCTGAGGCCTTCTCTATCCACTTGCCCCACGCTCCAAGTCT
 TGACATCTCCCGCTTCCGCTCCAGCCCCACCTACCGCAACTGTCTCCAGGCCCTCAAGGAAGAGTCCAC
 CAGGACTTGTCAAGGCGCTATGGGTCTGCAGCCCTGAAATACCTCACTGCCCTGCAGCAGGCCCGAAGTC
 GGGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001166633
- Insert Size:** 1968 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:	NM_001166633.2 , NP_001160105.1
RefSeq Size:	2348 bp
RefSeq ORF:	1968 bp
Locus ID:	228366
UniProt ID:	Q5XPT3
Cytogenetics:	2 E1
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 (PubMed:15958417).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the central coding region, compared to variant 1, resulting in an isoform (2) that is shorter than isoform 1.</p>