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Product datasheet for MC228506

Large2 (NM_001290775) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Large2 (NM_001290775) 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:

>MC228506 representing NM_001290775
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTGCATGTGGCTATCGTGTGTGCGGGATACAACTCCAGCCGAGAGATTATTACCCTAACGAAGTCCC
TGCTATTCTACAGGAAAAATCCGCTGCACCTCCACCTGATAACTGATGCCGTAGCCAGAAACATCCTGGA
GACACTCTTCCGAACATGGATGGTGCCAGCGGTGGTGGTCAGCTTCTATGATGCGGAAGAACTCAAGCCC
CTGGTCTCCTGGATCCCCAACAAACACTACTCTGGCCTCTATGGGCTAATGAAGCTAGTACTTCCCAGCA
TCCTGCCTCCCAGCCTGGCCCGAGTCATCGTCCTGGATACCGACGTCACTTTCTCCTCTGACATTGTGGA
GCTCTGGGCACTCTTTGATCATTTTTCTGACAAGCAGGTGGTCGGTCTCGTGGAGAACCAGAGCGACTGG
TACCTGGGCAACCTCTGGAAGAACCATAGGCCCTGGCCTGCCTTGGGCAGGGGATTTAACACAGGTGTGA
TCCTGCTGTGGCTGGACAGGCTCCAGCAAACTGGCTGGGAGCAGATGTGGAAGGTGACAGCCAAACGAGA
GCTGCTCACTCTGATGGCTACTTCCTTGGCTGACCAGGACATCTTCAATGCGGTCATCAAGGAGCACCCC
CATCTGGTGCACCCCCTGCCCTGTGTCTGGAACGTGCAGCTGTCAGACCACACTCGGGCTGAGCGCTGCT
ACCTGGAAGCAGCTGACCTCAAAGTGATCCACTGGAATTCACCAAAGAAGCTTCGAGTGAAGAACAAGCA
CGCAGAATTCTTCCGTAATCTGCACTTGACCTTTCTGGGGTATGATGGGAAGCTACTGCGAAGAGAGCTC
TTTGGATGCCCCAACCAGTTCCCTCCTGGGGCCGAGCAGTTGCAACAGGCCCTAACACAGCTGGATGAGG
AAGAGCCCTGCTTTGAGTTCCGCCAACAGCAGCTCACTGTGCACCGGGTGCACATCACCTTCCTGCCCCA
CCAGCCGCCACCTCCCCAGCCTCACGATGTCACCTTGGTGGCCCAACTCTCTATGGACCGGCTGCAGATG
CTGGAAGCCCTGTGCAGGCACTGGCCAGGCCCCATGAGCCTGGCCTTGTACCTGACAGATGAAGAGGCTC
AACAATTTCTTCATTTTGTGGAAACGTCGCCAGTGCTCTCTATGAGGAAGGATGTGGCCTACCATGTAGT
GTACCGGGACGGTCCACTCTATCCAGTCAACCAGCTCCGCAACGTGGCCTTGGCCCAGGCTCTCACACCC
TACGTCTTCCTCAGTGATATTGACTTCTTACCTGCCTACTCCCTCTACGACTACCTCAGGGCTTCTATCG
AGCAGCTGGAGCTGGACAGTCGGCGCAAGACTGCTTTGGTGGTGCCTGCATTTGAGACCCTACACTACCG
GTTCAGCTTCCCAAACTCTAAGGCAGAGCTGTTGACGTTACTGGATGCCGGCTCCCTTCACACCTTTAGG
TACCACGAGTGGCCACAGGGTCACTCATCCACAGACTATTCCCGCTGGCGGGAAGCCCAGGCACCATACA
GTGTGCAGTGGTCAGCTGACTATGAACCCTACGTGGTGGTACCCCGTGACTGCCCCCGTTATGATCCTCG
CTTTGTGGGATTTGGCTGGAACAAGGTGGCCCACATCATAGAGTTGGATGCTCAGGAATATGAATTCCTG
GTACTTCCTGAGGCCTTCTCTATCCACTTGCCCCACGCTCCAAGTCTTGACATCTCCCGCTTCCGCTCCA
GCCCCACCTACCGCAACTGTCTCCAGGCCCTCAAGGAAGAGTTCCACCAGGACTTGTCAAGGCGCTATGG
GTCTGCAGCCCTGAAATACCTCACTGCCCTGCAGCAGGCCCGAAGTCGGGCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001290775

Insert Size: 1875 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: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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:	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_001290775.1, NP_001277704.1
RefSeq Size:	2673 bp
RefSeq ORF:	1875 bp
Locus ID:	228366
UniProt ID:	Q5XPT3
Cytogenetics:	2 E1
Gene Summary:	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] Transcript Variant: This variant (5) uses an alternate splice site in the 5' region, and it thus differs in its 5' UTR and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (4) is shorter at the N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.