

Product datasheet for **RC206132**

LARGE2 (NM_152312) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LARGE2 (NM_152312) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LARGE2
Synonyms:	GYLTL1B; PP5656
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC206132 representing NM_152312
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTGCCCCGAGGGCGCCCCGGGCGCTGGGGCGCCCGCGCTGTTGCTGCTGCTGCTGCTCGGAT
TCCTCCTGTTTCGGTGGGACCTGGGGTGTGAGCGCCGCAAGCCTGGCGGGCGAGCGGGGCCCGGGATG
CTTCCCCGGCCCGCTCATGCCACGTGTCCCCCAGACGGGAGGCTGCGGAGAGCCGCCGCCCTCGACGGA
GACCCGGGGGCCGGCCCGGGGACCACAACCGCTCCGACTGCGGCCCGCAGCCGCCCGCCGCCCAAGT
GCGAGCTCTTGATGTGGCCATCGTGTGTGCGGGGCATAACTCCAGCCGAGACGTATCACCTGGTGAA
GTCCATGCTCTTACAGGAAAAATCCACTGCACCTCCACTTGGTGACTGACGCCGTGGCCAGAAACATC
CTGGAGACGCTCTCCACACATGGATGGTGCTGCTGTCCGTGTCAGCTTTATCATGCCGACCAGCTCA
AGCCCCAGGTCTCCTGGATCCCCAACAAGCACTACTCCGGCCTCTATGGGCTAATGAAGCTGGTGTGCC
CAGTGCCTTGCCGCTGAGCTGGCCCGCTCATTGTCTGGACACGGATGTCACCTTCGCCTCTGACATC
TCGGAGCTCTGGGCCCTCTTTGCTCACTTTTCTGACACGACGGGATCGGTCTTGTGGAGAACCAGAGTG
ACTGGTACCTGGGCAACCTCTGGAAGAACCACAGGCCCTGGCCTGCCTGGGCCGGGGATTTAACACAGG
TGTGATCCTGCTGCGGCTGGACCGGCTCCGGCAGGCTGGCTGGGAGCAGATGTGGAGGCTGACAGCCAGG
CGGGAGCTCCTTAGCCTGCCTGCCACCTCACTGGCTGACCAGGACATCTTCAACGCTGTGATCAAGGAGC
ACCCGGGGCTAGTGCAGCGTCTGCCTTGTGTCTGGAATGTGCAGCTGTGAGATCACACACTGGCCGAGCG
CTGCTACTCTGAGGCGTCTGACCTCAAGGTGATCCACTGGAACACCAAAGAAGCTTCGGGTGAAGAAC
AAGCATGTGAATTCTTCCGCAATTTCTACCTGACCTTCTGGAGTACGATGGGAACCTGCTCGGGAGAG
AGCTCTTTGTGTGCCCCAGCCAGCCCCACCTGGTGCTGAGCAGTTGACGAGGCCCTGGCACAATGGA
CGAGGAAGACCCCTGCTTTGAGTTCCGGCAGCAGCAGCTCACTGTGCACCGTGTGCATGTCACTTTCTG
CCCCATGAACCGCCACCCCCCGGCCCTCAGATGTCACCTTGTGGCCAGCTGTCCATGGACCGGCTGC
AGATGTTGGAAGCCCTGTGCAGGCACTGGCCTGGCCCCATGAGCCTGGCCTTGTACCTGACAGACGAGAG
AGCTCAGCAGTTCCTGCATTTCTGTCGAGGCCTCACCAAGTCTTGTGCCCCGAGGACGTGGCCTACCAT
GTGGTGTACCGTGAGGGGCCCTATACCCCGTCAACCAGCTTCGCAACGTGGCCTTGCCCCAGGCCCTCA
CGCCTTACGTCTTCTCAGTGACATTGACTTCTGCCTGCCTATTCTCTACGACTACCTCAGGGCCTC
CATTGAGCAGCTGGGGCTGGGCAGCCGGCGCAAGGCAGCACTGGTGGTGGCCGATTTGAGACCCTGCGC
TACCGCTTCAGCTTCCCCATTCCAAGGTGGAGCTGTTGGCCTTGTGGATGCGGGCACTCTTACACCT
TCAGGTACCACGAGTGGCCCCGAGGCCACGCACCCACAGACTATGCCCGCTGGCGGGAGGCTCAGGCCCC
GTACCGTGTGCAATGGGCGGCCAACTATGAACCTACGTGGTGGTGGCCACGAGACTGTCCCCGCTATGAT
CCTCGCTTTGTGGGCTTCGGCTGGAACAAAGTGGCCACATTGTGGAGCTGGATGCCAGGAATATGAGC
TCCTGGTGTGCCGAGGCCTTACCATCCATCTGCCACGCTCCAAGCCTGGACATCTCCCGCTCCG
CTCCAGCCCCACCTATCGTGACTGCCTCCAGGCCCTCAAGGACGAATCCACCAGGACTTGTCCCGCCAC
CATGGGGCTGTGCCCTCAAATACCTCCAGCCCTGCAGCAGCCCCAGAGCCCTGCCCGAGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC206132 representing NM_152312
Red=Cloning site Green=Tags(s)

MLPRGRPRALGAAALLLLLLLGGDLGCERRKPGGRAGAPGCFPGPLMPRVPPDGRLLRAAALDGD
 DPGAGPGDHNRSDCGPQPPPPKCELLHVAIVCAGHNSSRDVITLVKSMLFYRKNPLHLHLVTDVARNI
 LETLFTWMPVAVRVSFYHADQLKPQVSWIPNKHYSGLYGLMKLVLPALPAELARVIVLDTDVTFASDI
 SELWALFAHFSDTQAIGLVENQSDWYLGNLWKNHRPWPALGRGFNTGVILLRLDRLRQAGWEQMWRLTAR
 RELLSLPATSLADQDIFNAVIKEHPGLVQRLPCVWNVQLSDHTLAERCYSEASDLKVIHWNSPKKLRVKN
 KHVEFFRNFYLTFLFYDGNLLRRELFVCPSPQPPGAEQLQQAALQALDEEDPCFEFRQQQLTVHRVHVTF
 PHEPPPPRPHDVTVAQLSMDRLQMLEALCRHWPGPMSLALYLTDAEAQQFLHFVEASPVLAARQDVAYH
 VVYREGPLYPVNQLRNVALAQUALTPYVFLSDIDFLPAYSLYDYLRAIEQLGLGSRKAALVVPFETLR
 YRFSFPHSKVELLALLDAGTLYTFRYHEWPRGHAPTDYARWREAQAPYRVQWAANYEPYVVVPRDCPRYD
 PRFVGFGWNKVAHIVELDAQEYELLVLEAFTIHLPHAPSLDISFRSSPTYRDCLQALKDEFHQDLSRH
 HGAAALKYLPALQQPQSPARG

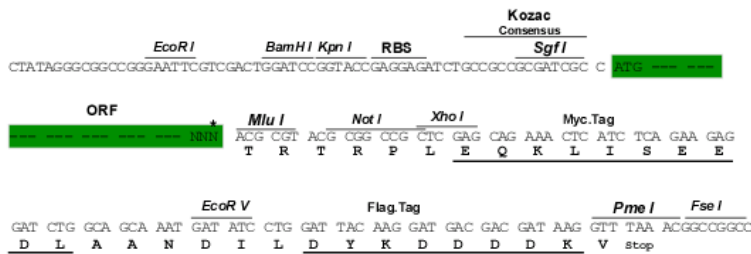
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4271_c08.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_152312

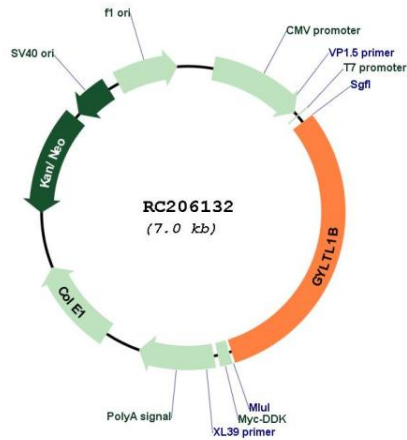
ORF Size: 2163 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

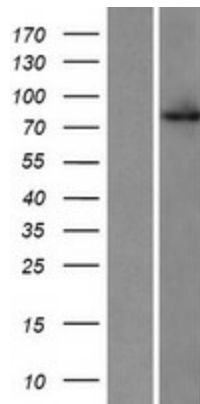
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_152312.5
RefSeq Size:	2539 bp
RefSeq ORF:	2166 bp
Locus ID:	120071
UniProt ID:	Q8N3Y3
Cytogenetics:	11p11.2
Protein Families:	Transmembrane
MW:	81.6 kDa
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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC206132



Western blot validation of overexpression lysate (Cat# [LY407639]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206132 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).