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Product datasheet for SC112030

ALG9 (NM_024740) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALG9 (NM_024740) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALG9
Synonyms:	CDG1L; DIBD1; GIKANIS; LOH11CR1J
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>NCBI ORF sequence for NM_024740, the custom clone sequence may differ by one or more nucleotides

ATGGCTAGTCGAGGGGCTCGGCAGCGCCTGAAGGGCAGCGGGGCCAGCAGTGGGGATACGGCCCCGGCTG
CGGACAAGCTGCGGGAGCTGCTGGGCAGCCGAGAGGCGGGCGGCGCGGAGCACCGGACCGAGTTATCTGG
GAACAAAGCAGGACAAGTCTGGGCACCTGAAGGATCTACTGCTTTCAAGTGTCTGCTTTCAGCAAGGTTA
TGTGCTGCTCTCCTGAGCAACATCTCTGACTGTGATGAAACATTCAACTACTGGGAGCCAACACACTACC
TCATCTATGGGGAAGGGTTTCAGACTTGGGAATATTCCCCAGCATATGCCATTCGCTCCTATGCTTACCT
GTTGCTTCATGCCTGGCCAGCTGCATTTCATGCAAGAATTCTACAAACTAATAAGATTCTTGTGTTTTAC
TTTTTGCGATGTCTTCTGGCTTTTGTGAGCTGTATTTGTGAACTTTACTTTTACAAGGCTGTGTGCAAGA
AGTTTGGGTTGCACGTGAGTCGAATGATGCTAGCCTTCTTGGTTCTCAGCACTGGCATGTTTTGCTCATC
ATCAGCATTCCTTCCTAGTAGCTTCTGTATGTACACTACGTTGATAGCCATGACTGGATGGTATATGGAC
AAGACTTCCATTGCTGTGCTGGGAGTAGCAGCTGGGGCTATCTTAGGCTGGCCATTCAGTGCAGCTCTTG
GTTTACCCATTGCCTTTGATTTGCTGGTCATGAAACACAGGTGGAAGAGTTTCTTTCATTGGTCGCTGAT
GGCCCTCATACTATTTCTGGTGCCTGTGGTGGTCATTGACAGCTACTATTATGGGAAGTTGGTGATTGCA
CCACTCAACATTGTTTTGTATAATGTCTTTACTCCTCATGGACCTGATCTTTATGGTACAGAACCCTGGT
ATTTCTATTTAATTAATGGATTTCTGAATTTCAATGTAGCCTTTGCTTTGGCTCTCCTAGTCCTACCACT
GACTTCTCTTATGGAATACCTGCTGCAGAGATTTCATGTTCAGAATTTAGGCCACCCGTATTGGCTTACC
TTGGCTCCAATGTATATTTGGTTTATAATTTTCTTCATCCAGCCTCACAAAGAGGAGAGATTTCTTTTCC
CTGTGTATCCACTTATATGTCTCTGTGGCGCTGTGGCTCTCTCTGCACTTCAGCACAGTTTTCTGTACTT
CCAGAAATGTTACCACTTTGTGTTTCAACGATATCGCCTGGAGCACTATACTGTGACATCGAATTGGCTG
GCATTAGGAACTGTCTTCCTGTTTGGGCTCTTGTCATTTTCTCGCTCTGTGGCACTGTTCAGAGGATATC
ACGGGCCCCTTGATTTGTATCCAGAATTTTACCGAATTGCTACAGACCCAACCATCCACACTGTCCCAGA
AGGCAGACCTGTGAATGTCTGTGTGGGAAAAGAGTGGTATCGATTTCCCAGCAGCTTCCTTCTTCCTGAC
AATTGGCAGCTTCAGTTCATTCCATCAGAGTTCAGAGGTCAGTTACCAAAACCTTTTGCAGAAGGACCTC
TGGCCACCCGGATTGTTCCTACTGACATGAATGACCAGAATCTAGAAGAGCCATCCAGATATATTGATAT
CAGTAAATGCCATTATTTAGTGGATTTGGACACCATGAGAGAAACACCCCGGGAGCCAAAATATTCATCC
AATAAAGAAGAATGGATCAGCTTGGCCTATAGACCATTCCTTGATGCTTCTAGATCTTCAAAGCTGCTGC
GGGCATTCTATGTCCCCTTCCTGTCAGATCAGTATACAGTGTACGTAAACTACACCATCCTCAAACCCCG
GAAAGCAAAGCAAATCAGGAAGAAAAGTGGAGGTTAG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024740 unedited
GACACTTGGATTTTGTAAACACGACTTCTACTATAGGGCGGCACGCGCAATTCGGCACGA
GGCCGACTTCATAGGGTGCCGAATTCTTTTTTCCCCAGGCTTGCCATGGCTAGTCGAGGG
GCTCGGCAGCGCCTGAAGGGCAGCGGGGCCAGCAGTGGGGATACGGCCCCGGCTGCGGAC
AAGCTGCGGGAGCTGCTGGGCAGCCGAGAGGCGGGCGGCGCGGTACATCGGACCGAGTTA
TCTGGGAACAAAGCAGGACAAGTCTGGGCACCTGAAGGATCTACTGCTTTCAAGTGTCTG
CTTTCAGCAAGGTTATGTGCTGCTCTCCTGAGCAACATCTCTGACTGTGATGAAACATTC
AACTACTGGGAGCCAACACACTACCTCATCTATGGGGAAGGGTTTCAGACTTGGGAATAT
TCCCCAGCATATGCCATTCGCTCCTATGCTTACCTGTTGCTTCATGCCTGGCCAGCTGCA
TTTCATGCAAGAATTCTACAAACTAATAAGATTCTTGTGTTTTACTTTTTGCGATGTCTT
CTGGCTTTTGTGAGCTGTATTTGTGAACTTTACTTTTACAAGGCTGTGTGCAAGAAGTTT
GGGTTGCACGTGAGTCGAATGATGCTAGCCTTCTTGGTTCTCAGCACTGGCATGTTTTGC
TCATCATCAGCATTCCTTCCTAGTAGCTTCTGTATGTACACTACGTTGATAGCCATGACT
GGATGGTATATGGACAAGACTTCCATTGCTGTGCTGGGAGTAGCAGCTGGNGCTATCTTA
GGCTGGCCATTCAGTGCAGCTCTTGGTTTACCCATTGCCTTTGATTTGCTGGTCATGAAA
CACANGTGGNAAGAGTTNCTTNCATTGGTCGCTGATGGCCCTCATACTATTTCTGGTGCC
CTGTGTGGTCATTGACAGCTACTATTATGGGAAGTGGTGA

3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_024740 unedited
GCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTCATGTCAGAAGACCTTTATT
ACAAATGTTACAGGCGATGACTTGCAGGGAGTCAGGTCACTGGAATCAATAGTTAACAAG
ATGGTTGTCCTTTGGGGCCACAGGTGTGTTGCTAACCTCCACTTTTCTTCCTGATTTGCT
TTGCTTTCCGGGGTTTGAGGATGGTGTAGTTTACGTACACTGTATACTGATCTGACAGGA
AGGGGACATAAAATGCCCGCAGCAGCTTTGAAGATCCCAGTCAAGGAGAAGTTAATGGCC
AGGCACGGTGGCTCAGGCCTGTAATCCCAATATTTTGAGAGGCTGAGGTGGGAGGATTGC
TTGAGCCCAGGAGTTTGAGCCCAGCCTGGGCAACAAATTGAGACCTAGAAGCATCAAGGA
ATGGTCTATAGGCCAAGCTGATCCATTCTTCTTTATTGGATGAATATTTTGGCTCCCGGG
GTGTTTCTCTCATGGTGTCCAAATCCACTAAATAATGGCATTTACTGATATCAATATATC
TGGATGGCTCTTCTAGATTCTGGTCATTCATGTCAGTAGGAACAATCCGGGTGGCCAGAG
GTCCTTCTGCAAAGGTTTTGGTAACTGACCTCTGAACTCTGATGGAATGAACTGAAGCTG
CCAATTGTCAGGAAAAAGGAAGCTGCTGGGAAATCGATACACTCTTTTCCCACCAGACAT
TCCAGGTCTGCCTTCTGGACAGGGGGATGGTGGGTCTGTACAATTCGGTAAATTTCGGAT
CAAACAAGGGCCCGGGATTCCTCTGAACGGGCCACAAGCGAAAAATGACAAAGCCCAACG
GGAGACAGTTCTAAGGCCCCCAATCGATGTCCAGTTAAGGCCCCAGCCATATGGTTGACA
CCGAGGGTAACTTTTGAAGGCCAAAAAGCCCCCGCCCCGAAA
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Restriction Sites: NotI-NotI

ACCN: NM_024740

Insert Size: 2240 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:
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_024740.1, NP_079016.1

RefSeq Size: 6158 bp

RefSeq ORF: 1857 bp

Locus ID: 79796

UniProt ID: Q9H6U8

Cytogenetics: 11q23.1

Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

Gene Summary: This gene encodes an alpha-1,2-mannosyltransferase enzyme that functions in lipid-linked oligosaccharide assembly. Mutations in this gene result in congenital disorder of glycosylation type Il. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2008]
Transcript Variant: This variant (1) encodes isoform a.