

## Product datasheet for **RC216941**

### **ALG9 (NM\_001077690) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ALG9 (NM_001077690) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ALG9
Synonyms:	CDG1L; DIBD1; GIKANIS; LOH11CR1J
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC216941 representing NM\_001077690  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTAGTCGAGGGCTCGGCAGCGCCTGAAGGGCAGCGGGCCAGCAGTGGGGATACGGCCCCGGCTG  
 CGGACAAGCTGCGGGAGCTGCTGGGCAGCCGAGAGGCGGGCGGCGGAGCACCGGACCGAGTTATCTGG  
 GAACAAAGCAGGACAAGTCTGGGCACCTGAAGGATCTACTGCTTTCAAGTGTCTGCTTTAGCAAGTTA  
 TGTGCTGCTCTCCTGAGCAACATCTCTGACTGTGATGAAACATCAACTACTGGGAGCCAACACTACTACC  
 TCATCTATGGGGAAGGGTTTCAGACTTGGGAATATCCCAGCATATGCCATTGCTCCTATGCTTACCT  
 GTTGCTTCATGCCTGGCCAGCTGCATTTTCATGCAAGAATTCTACAACTAATAAGATTCTGTGTTTTAC  
 TTTTTGCGATGTCTTCTGGCTTTTGTGAGCTGTATTTGGAACCTTACTTTACAAGGCTGTGTGAAGA  
 AGTTTGGGTTGCACGTGAGTGAATGATGCTAGCCTTCTTGGTCTCAGCACTGGCATGTTTTGCTCATC  
 ATCAGCATTCCCTCCTAGTAGTCTGTATGTACTACTACGTTGATAGCCATGACTGGATGGTATATGGAC  
 AAGACTTCCATTGCTGTGCTGGGAGTAGCAGCTGGGGCTATCTTAGGCTGGCCATTCAAGTGCAGCTCTTG  
 GTTACCATTGCCTTTGATTTGCTGGTATGAAACACAGGTGGAAGAGTTTCTTTCATTGGTCCGCTGAT  
 GGCCCTCACTATTTCTGGTGCCTGTGGTGGTATTGACAGCTACTATTATGGGAAGTTGGTGATTGCA  
 CCACTCAACATTGTTTTGTATAATGTCTTTACTCCTCATGGACCTGATCTTTATGGTACAGAACCCTGGT  
 ATTTCTATTTAATTAATGGATTTCTGAATTTCAATGTAGCCTTTGCTTTGGCTCTCCTAGTCTACCACT  
 GACTTCTCTTATGGAATACCTGCTGCAGAGATTCATGTTTCAAGATTTAGGCCACCCGATTGGCTTACC  
 TTGGCTCCAATGTATTTGGTTTATAATTTTCTCATCCAGCCTCACAAGAGGAGAGATTTCTTTTCC  
 CTGTGTATCCACTTATATGTCTCTGTGGCCTGTGGCTCTCTGCACTTCAGAAATGTTACCACCTTTGT  
 GTTTCAACGATATCGCCTGGAGCACTATACTGTGACATCGAATTGGCTGGCATTAGGAACCTGTCTCCTG  
 TTTGGGCTCTTGTCAATTTCTCGCTCTGTGGCACTGTTTCAAGGATATCACGGGCCCTTGATTTGTATC  
 CAGAATTTTACCGAATTGCTACAGACCCCAACCACCACTGTCCAGAAAGGAGACCTGTGAATGTCTG  
 TGTGGGAAAAGAGTGGTATCGATTTCCAGCAGCTTCTTCTTCTGACAATTGGCAGCTTCAGTTCATT  
 CCATCAGAGTTCAGAGGTCAGTTACCAAACTTTTGCAGAAGGACCTGTGGCCACCCGGATTGTTCTTA  
 CTGACATGAATGACCAGAATCTAGAAGAGCCATCCAGATATATTGATATCAGTAAATGCCATTATTTAGT  
 GGATTTGGACACCATGAGAGAAACCCCGGGAGCCAAAATTCATCCAATAAAGAAGAATGGATCAGC  
 TTGGCCTATAGACCATTCCTTGATGCTTCTAGATCTTCAAAGCTGCTGCGGGCATTCTATGTCCCCTTCC  
 TGTCAGATCAGTATACAGTGTACGTAAACTACCCATCCTCAAACCCGAAAGCAAAGCAATCAGGAA  
 GAAAAGTGGAGGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC216941 representing NM\_001077690  
 Red=Cloning site Green=Tags(s)

MASRGARQLKSGSASSGDTAPAADKRELLGSREAGGAHRTEL SGNKAGQVWAPEGSTAFKCLLSARL  
 CAALLSNISDCDEFNYWEPHYLIYGEFGTWEYSPAYAIRSYAYLLLHAWPAAFHARILQTNKILVYF  
 FLRCLLAFVSCICELFYKAVCKKFLHVSRRMLAFLVLSTGMFCSSAFLPSSFYMYTTLIAMTGWYMD  
 KTSIAVLGVAAGAILGWPFSALGLPIAFDILLVMKHRWKSFFHWSLMALILFLVPVVVIDSYYYGKLVIA  
 PLNIVLYNVFTHPGPDLYGTEPWYFYLINGFLNFVAFALALLVLPLTSLMEYLLQRFHVQNLGHPYWL  
 LAPMYIWFIIFFIQPHKEERFLFPVYPLICLGAVALSALQKCYHFVFQYRLEHYTVTSNWLALGTVFL  
 FGLLSFSRSVALFRGYHGPLDLYPEFYRIATDPTIHTVPEGRPVNVCVKGWEYRFPSSFLLPDNQWQLQFI  
 PSEFRGQLPKPFAEGPLATRIVPTDMNDQNLEEPSRYIDISKCHYLVDLDMRETREPKYSSNKEEWIS  
 LAYRPFLLDASRSSKLLRAFVYVFLSDQYTVVYNYTILKPRKAKQIRKSSGG

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk8069\\_f04.zip](https://cdn.origene.com/chromatograms/mk8069_f04.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001077690

ORF Size: 1833 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:

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\\_001077690.1](#), [NP\\_001071158.1](#)

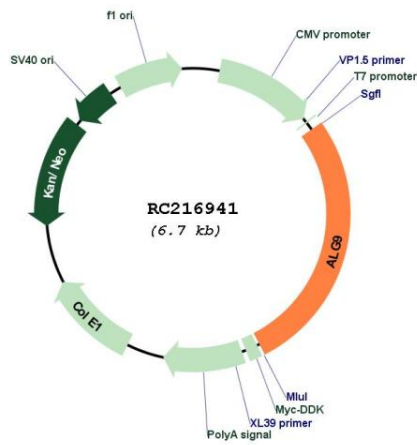
RefSeq Size: 6137 bp

RefSeq ORF: 1836 bp

**Locus ID:** 79796  
**UniProt ID:** [Q9H6U8](#)  
**Cytogenetics:** 11q23.1  
**Protein Families:** Transmembrane  
**Protein Pathways:** Metabolic pathways, N-Glycan biosynthesis  
**MW:** 69.7 kDa

**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 II. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2008]

**Product images:**



Circular map for RC216941