

Product datasheet for **SC315557**

ALG9 (NM_001077692) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALG9 (NM_001077692) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALG9
Synonyms:	CDG1L; DIBD1; GIKANIS; LOH11CR1J
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC315557 representing NM_001077692. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATGCTAGCCTTCTGGTTCTCAGCACTGGCATGTTTTGCTCATCATCAGCATTCTTCTAGTAGC
TTCTGTATGTACTACTACGTTGATAGCCATGACTGGATGGTATATGGACAAGACTTCCATTGCTGTGCTG
GGAGTAGCAGCTGGGGCTATCTTAGGCTGGCCATTCAGTGCAGCTCTGGTTTACCCATTGCCTTTGAT
TTGCTGGTCATGAAACACAGGTGGAAGAGTTTCTTTTCATTGGTCGCTGATGGCCCTCATACTATTTCTG
GTGCTGTGGTGGTCATTGACAGCTACTATTATGGGAAGTTGGTATTGCACCACTCAACATTGTTTTG
TATAATGTCTTTACTCCTCATGGACCTGATCTTTATGGTACAGAACCCTGGTATTTCTATTTAATTAAT
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TACCTGCTGCAGAGATTTTATGTTTACAGAAATTTAGGCCACCCGATTTGGCTTACCTTGGCTCCAATGTAT
ATTTGGTTTATAATTTTCTTATCCAGCCTCACAAAGAGGAGAGATTTCTTTCCCTGTGTATCCACTT
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CGCCTGGAGCACTATACTGTGACATCGAATGGCTGGCATTAGGAAGTCTTCTGTTTGGGCTCTTG
TCATTTTCTCGCTCTGTGGCACTGTTTACAGAGATATCACGGGCCCTTGATTTGTATCCAGAATTTTAC
CGAATTGCTACAGACCAACCATCCACACTGTCCAGAAGGCAGACCTGTGAATGTCTGTGTGGAAAA
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AATGACCAAGATCTAGAAGGCCATCCAGATATATTGATATCAGTAAATGCCATTATTTAGTGGATTTG
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TATAGACCATTCCTGATGCTTCTAGATCTTCAAAGCTGCTGCGGGCATTCTATGTCCCCTTCTGTCA
GATCAGTATACAGTGTACGTAACCTACACCATCTCAAACCCGGAAAGCAAAGCAAATCAGGAAGAAA
AGTGGAGGTTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001077692
Insert Size:	1323 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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001077692.1</u>
RefSeq Size:	6414 bp
RefSeq ORF:	1323 bp
Locus ID:	79796
UniProt ID:	<u>Q9H6U8</u>
Cytogenetics:	11q23.1
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, N-Glycan biosynthesis
MW:	50.8 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) contains a distinct 5' UTR, lacks an in-frame portion of the 5' coding region, and uses an alternate in-frame splice site in the central coding region, compared to variant 1. The resulting isoform (d) has a shorter N-terminus and lacks a 7-aa internal segment, compared to isoform a. Variants 4-8 all encode the same isoform (d).</p>