

## Product datasheet for **SC112269**

### **ALG8 (NM\_024079) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ALG8 (NM_024079) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALG8
Synonyms:	CDG1H; PCLD3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_024079, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCGCTCACAAATGCCACGGGACTGGCAATTGGTTTTCGGCTTTGGCGCTCGGGGTGACTCTTC
TCAAATGCCTTTCATCCCCACATACCATTCCACAGATTTTGAAGTACACCGAAACTGGCTTGCTATCAC
TCACAGTTTGCCAAATACACAGTGGTATTATGAGGCAACTTCAGAGTGGACGTTGGATTACCCCTTTTC
TTTGCATGGTTTGAGTATATCCTGTACATGTTGCCAAATATTTTGATCAAGAAATGCTGAATGTCCATA
ATTTGAATTACTCCAGCTCAAGGACCTTACTTTCCAGAGATTTCCGTCATCTTTATGGATGACTCTT
TGTGTATGCTGTCCGTGAGTGTGTAATGCATTGATGGAAAAAAGTGGGTAAAGAACTTACAGAAAAAG
CCAAAAATTTATTCTGTCGGTATTACTTCTGTGAACTTCGGGTTATTAATTGTGGACCATTTCAATTTTC
AGTACAATGGCTTTTATTTGGATTAATGCTACTCTCCATTGCACGATTATTCAGAAAAGGCATATGGA
AGGAGCATTCTCTTTGCTGTTCTCCTACATTTCAAGCATATCTACCTCTATGTAGCACCAGCTTATGGT
GTATATCTGCTGCGATCCTACTGTTTCACTGCAAATAAACCAGATGGGTCTATTCGATGGAAGAGTTTCA
GCTTTGTTGCTGTTATTTCCCTGGGACTGGTTGTTTTCTAGTTTCTGCTCTTTCATTGGGTCTTTCTCT
GGCCTTGAATCAGCTGCCTCAAGTCTTTCCCGACTCTTTCCTTTCAAGAGGGGCCTCTGTGCATGCATAT
TGGGCTCCAAACTTCTGGGCTTTGTACAATGCTTTGGACAAAGTGTGTCTGTATCGGTTTGAAATTGA
AATTTCTTGATCCCAACAATATTTCCCAAGGCCTCAATGACAAGTGGTTTGGTTCAGCAGTTCCAACACAC
AGTCTTCCCTCAGTGACTCCCTGGCAACCCTCATCTGCACACTGATTGCCATATTGCCCTCTATTTTC
TGTCTTTGGTTTAAACCCCAAGGGCCAGAGGCTTTCTCCGATGTCTAACTCTTTGTGCCTTGAGCTCCT
TTATGTTGGGTGGCATGTTTCATGAAAAAGCCATACTTCTAGCAATTCCTCAATGAGCCTTTTGTCTGT
GGGAAAAGCAGGAGACGCTTCGATTTTCTGATTCTGACCACAACAGGACATTATCCCTCTTTCCCTCTG
CTCTTCACTGCACCAGAACTTCCATTAATACTTACTCATGTTACTATTACCATATAGTATTTCTG
CACTGAAGACTTTATTCAGAAAAGAAAAACCTCTTTTAAATTGGATGGAAACTTTCTACCTGCTTGGCCT
GGGGCCTCTGGAAGTCTGCTGTGAATTTGTATTCCCTTTCACCTCCTGGAAGGTGAAGTACCCCTTCATC
CCTTTGTACTAACCTCAGTGTATTGTGCAGTAGGCATCACATATGCTTGGTTCAAAGTGTATGTTTCAG
TATTGATTGACTCTGCTATTGGCAAGACAAGAAACAATGA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_024079 unedited

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ATTTAGATTTGTAACCGACTTACTATAGCGGCCGCGCAATTCGCACGAGGGTGCAGTGC
CGCAGCAATGGCGGCGCTCACAAATGCCACGGGACTGGCAATTGGTTTTCGGCTTTGGC
GCTCGGGGTGACTCTTCTCAAATGCCTTCTCATCCCCACATACCATTCCACAGATTTTGA
AGTACACCGAAACTGGCTTGCTATCACTCACAGTTTGCCAAATACACAGTGGTATTATGA
GGCAACTTCAGAGTGGACGTTGGATTACCCCTTTCTTTGCATGGTTTGAGTATATCCT
GTCACATGTTGCCAAATATTTTGATCAAGAAATGCTGAATGTCCATAATTTGAATTACTC
CAGCTCAAGGACCTTACTTTCCAGAGATTTCCGTCATCTTTATGGATGACTCTTTGT
GTATGCTGTCCGTGAGTGTGTAATGCATTGATGGAAAAAAGTGGGTAAAGAACTTAC
AGAAAAGCCAAAATTTATTCTGTCGGTATTACTTCTGTGGAACCTTCGGGTTATTAATTGT
GGACCATATTCATTTTTCAGTACAATGGCTTTTATTTGGATTAATGCTACTCTCCATTGC
ACGATTATTTTCAGAAAAGGCATATGGAAGGAGCATTCTCTTTGCTGTTCTCCTACATTT
CAAGCATATCTACCTCTATGTAGCACCAGCTTATGGTGTATATCTGCTGCGATCCTACTG
TTTCACTGCANATAAACCAGATGGGTCTATTCGATGGAAGAGTTTCAGCTTTGTTGCTGT
TATTTCCCTGGGACTGGTTGTTTTCTAGTTTCTGCTCTTTCATGGNGTCCCTTCTGGG
CCTGAATCAGCTGCCTCAAGTCTTTCCCGACTCTTTCCTTTNNCAGAGGGCCTCTGTCA
TGCATATTGGGCTCCAACCTCTGGGN
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_024079 unedited GGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTCTAAGCAGTTCCTTTATTCATT GTTTCTTTGTCTTGCCAAATAGCAGAGTCAATCAATACTGAAACATACAGTTTGAACCAAG CATATGTGATGCCTACTGCACAATACACTGAGGTTAGTAACAAAGGGATGAAGGGTACT TCACCTTCCAGGAGGTGAAAGGGAATACAAATTCACAGCAGACTCCAGAGGCCCCAGGC CAAGCAGGTAGAAAGTTTCCATCCAATTAAGAGAGGTTTTTCTTTCTGAATAAAGTCT TCAGTGACGAAATACTATATATGGTGAATAGTAACATGAGTAAGATTTTAAATGGGAAGTT CTGGTGCAGTGAAGAGCAGAGGAAAGAGGGAATAATGTCCTGTTGTGGTCAGAATCAGAA AAATCGAAGCGTCTCCTGCTTTTCCACAGACAAAAGGCTCATTGGGAGAATTGCTAGAA GTATGGCTTTTTCATGAACATGCCACCCAAACATAAAGGAGCTCAAGGCACAAAGAGTTA GACATCGGAGAAAGCCTCTGGGCCCAATATGGCAATCAGTGTGCAGATGAGGGTTGCCAA GGGAGTCACTGAGGGAAGGACTGTGTGTTGGAAGTCTGAACCAAAACACTTGTCTATTGA GGCCTTGGGAATATTGTTGGGATCAAGAAATTTCAATTTCAAACCGATGACAGACAGCAC TTTGTCCAAAGCATTGTACAAAGCCCCAGAAGTTTGGAGCCCAATATGCATGACANGAGC CCCTCTTCAAAGGAAAGAGTCGNNNAAAGACTTGAGGCAGCTGATTCAAGGCCAGAAAA GGACCCCATGAANGAGCAGAAAACCTAGAAAACCCNGTCCCAGGGAAAAAACCACGAC AAGCTGAAACTCTTTCATCGAATAGACCATCTGGTTATTTGCAGGAAACAATGGATCCAG CAGATCCCCTAACTGTGCTAAATAAGT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_024079
<b>Insert Size:</b>	1620 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_024079.3</a></u> , <u><a href="#">NP_076984.2</a></u>
<b>RefSeq Size:</b>	1668 bp
<b>RefSeq ORF:</b>	1668 bp
<b>Locus ID:</b>	79053
<b>UniProt ID:</b>	<u><a href="#">Q9BVK2</a></u>
<b>Cytogenetics:</b>	11q14.1
<b>Domains:</b>	Alg6_Alg8

**Protein Families:** Transmembrane

**Protein Pathways:** Metabolic pathways, N-Glycan biosynthesis

**Gene Summary:** This gene encodes a member of the ALG6/ALG8 glucosyltransferase family. The encoded protein catalyzes the addition of the second glucose residue to the lipid-linked oligosaccharide precursor for N-linked glycosylation of proteins. Mutations in this gene have been associated with congenital disorder of glycosylation type 1h (CDG-1h). Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (1) represents the shorter transcript, but encodes the longer isoform (a).