

Product datasheet for **SC320615**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_024079.4
 GATCCCGGATGTGGATCAAGTTGGTGGGAAGCGTGCGGTGCCGCAGCAATGGCGGCGCTC
 ACAATTGCCACGGGACTGGCAATTGGTTTTGGCTTTGGCGCTCGGGGTGACTCTTCTC
 AAATGCCTTCTCATCCCCACATACCATTCCACAGATTTTGAAGTACACCGAAACTGGCTT
 GCTATCACTCACAGTTTGCCAATATCACAGTGGTATTATGAGGCAACTTCAGAGTGGACG
 TTGGATTACCCCTTTCTTTGCATGGTTTGGATATATCCTGTCACATGTTGCCAATAT
 TTTGATCAAGAAATGCTGAATGCCATAATTTGAATTACTCCAGCTCAAGGACCTTACTT
 TTCCAGAGATTTCCGTACTCTTTATGGATGACTCTTTGTGTATGCTGTCCGTGAGTGC
 TGTAATGCATTGATGGAAAAAAGTGGGTAAAGAACTTACAGAAAAGCCAAAATTTATT
 CTGTCCGTATTACTTCTGTGGAACCTTCGGGTATTAATTGTGGACCATATTCATTTTCAG
 TACAATGGCTTTTTATTTGGATTAATGCTACTCTCCATTGCACGATTATTTAGAAAAGG
 CATATGGAAGGAGCATTCTCTTTGCTGTTCTCCTACATTTCAAGCATATCTACCTCTAT
 GTAGCACCAGCTTATGGTGTATATCTGCTGCGATCCTACTGTTTCACTGCAAATAAACCA
 GATGGGCTATTTCGATGGAAGAGTTTCAGCTTTGTTTCGTGTTATTTCCCTGGGACTGGTT
 GTTTTCTAGTTTCTGCTCTTTTATTGGGTCCTTCTGGCCTTGAATCAGCTGCCTCAA
 GTCTTTTCCCGACTCTTTCTTTCAAGAGGGCCTCTGTATGCATATTGGGCTCCAAAC
 TTCTGGGCTTTGTACAATGCTTTGGACAAAGTGTGTCTGTATCGGTTTGAAATGAAA
 TTTCTTGATCCCAACAATATCCCAAGGCTCAATGACAAGTGGTTTGGTTGAGCAGTTC
 CAACACACAGTCTTCCCTCAGTGACTCCCTTGGCAACCTCATCTGCACACTGATTGCC
 ATATTGCCCTCTATTTCTGTCTTTGGTTAAACCCCAAGGGCCAGAGGCTTTCTCCGA
 TGTCTAACTCTTTGTGCCTTGAGCTCCTTATGTTTGGTGGCATGTTTCATGAAAAGCC
 ATACTTAGCAATTCTCCAATGAGCCTTTTGTCTGTGGGAAAAGCAGGAGACGCTTCG
 ATTTTCTGATTCTGACCACAACAGGACATTATCCCTCTTCTCTGCTTCTCACTGCA
 CCAGAACTTCCCATTAATACTTACTCATGTTACTATTACCATATATAGTATTTTCGTCA
 CTGAAGACTTTTATCAGAAAAGAAAACCTTTTTTAATTGGATGAAACTTTCTACCTG
 CTTGGCCTGGGGCCTCTGGAAGTCTGCTGTGAATTTGATTCCCTTTCACCTCCTGGAAG
 GTGAAGTACCCCTTCATCCCTTTGTTACTAACCTCAGTGTATTGTGAGTGGCGTCACA
 TATGCTTGGTTCAAAGTGTATGTTTCAGTATTGATTGACTCTGCTATTGGCAAGACAAAG
 AAACAATGAATAAAGGAAGTCTTAGAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_024079

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:

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_024079.4](#), [NP_076984.2](#)

RefSeq Size: 1668 bp

RefSeq ORF: 1581 bp

Locus ID: 79053

UniProt ID: [Q9BVK2](#)

Cytogenetics: 11q14.1

Domains: 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).