

## Product datasheet for **SC325864**

### ALG3 (NM\_001006941) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ALG3 (NM_001006941) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALG3
Synonyms:	CDG1D; CDGS4; CDGS6; D16ErtD36e; not; Not56; NOT56L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325864 representing NM_001006941. Blue=Insert sequence Red=Cloning site Green=Tag(s)

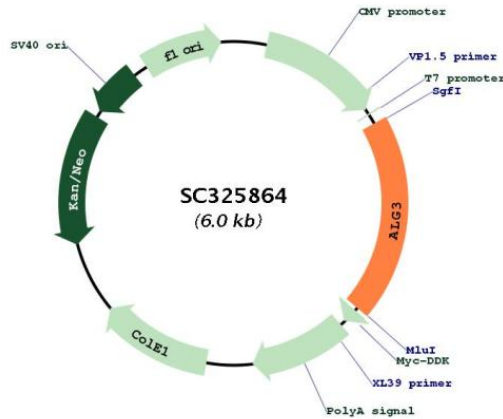
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG  
GATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**  
ATGTTCCAGCGCAGGCGAAGGAGAATGCTGGCTTTCAGCGGTTGTGGGGAGACACAGAGATTGACTGG  
AAGGCCTACATGGCCGAGGTAGAAGGCGTCATCAATGGTACCTATGACTATACCCAAGTGCAGGGTGAC  
ACCGGACCACTTGTGTACCCAGCTGGTTTCGTGTACATCTTTATGGGGTGTACTATGCCACCAGCCGA  
GGCACTGACATCCGCATGGCCAGAACATCTTTGCTGTGCTCTACCTGGTACCTTGCTGCTTGTCTTC  
TTGATCTATCACCAGACCTGCAAGGTACCTCCCTTCGTCTTTTCTTCATGTGCTGCGCCTTTACCGT  
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AATGTGCTGCTCTTCGCCCTGGGTTACTGTTTCTTCTCCTCACACAGTTTGGCTTCCGTGGGGCCCTC  
CCCAAGCTGGGAATCTGTGCTGGCCTTCAGGTGGTGTGCGGGCTGCCCTTCTGCTGGAGAACCCAGC  
GGTACCTGTCCCGCTCCTTTGACCTTGGCCGCCAGTTTCTGTTCCACTGGACAGTGAAGTGGCGCTTC  
CTCCAGAGGGCGCTTCTCCTGCATCGAGCCTTCCACCTGGCCCTGTTGACTGCCACCTCACCTGCTC  
CTGCTGTTGCCCTCTGCAGGTGGCACAGGACAGGGGAAAGTATCTTGTGCTGCTGAGGGATCCCTCC  
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CTCCTGTGGGCCATGCCTGCACGCTGGCTCACACACCTGCTCAGGTTGTTGGTGTGCGGGCTCATCGAG  
CTCCTGGAACACATACCCTTCCACATCCTGCAGCTCTGCTGCCCTGCACATATGCCATGCCGTATC  
CTGCTGCAGCTCTGGCTGGGCCGACGCTTTCCCAAGAGCACCAACACAGCAAGAAAGCCACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT  
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: Sgfl-MluI



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**Plasmid Map:**


**ACCN:** NM\_001006941

**Insert Size:** 1173 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:**

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\\_001006941.2](#)

**RefSeq Size:** 1623 bp

**RefSeq ORF:** 1173 bp

**Locus ID:** 10195

**UniProt ID:** [Q92685](#)

**Cytogenetics:** 3q27.1

<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Metabolic pathways, N-Glycan biosynthesis
<b>MW:</b>	44.4 kDa
<b>Gene Summary:</b>	<p>This gene encodes a member of the ALG3 family. The encoded protein catalyses the addition of the first dol-P-Man derived mannose in an alpha 1,3 linkage to Man5GlcNAc2-PP-Dol. Defects in this gene have been associated with congenital disorder of glycosylation type Id (CDG-Id) characterized by abnormal N-glycosylation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2008]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR and the 5' coding region, compared to variant 1. The resulting isoform (d) has a shorter and distinct N-terminus, compared to isoform a.</p>