

Product datasheet for **SC330586**

GLT28D1 (ALG13) (NM_001257230) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLT28D1 (ALG13) (NM_001257230) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALG13
Synonyms:	CDG1S; CXorf45; DEE36; EIEE36; GLT28D1; MDS031; TDRD13; YGL047W
Vector:	pCMV6-Entry (PS100001)



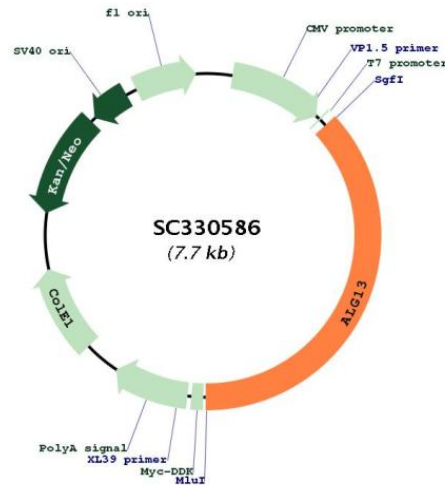
[View online »](#)

Fully Sequenced ORF: >SC330586 representing NM_001257230.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

ATGAACAATCATCAGCTGGAAGCTGGCAAAGCAGCTACACAAAGAGGGTCATCTCTTCTATTGTACCTGC
AGGGTCCTGACTTGTCTGGGCAAGCCAAGTCCATTGCTTCTGCTCTGGGAAGTGCCAAGATTCTGCA
GCGTGACTTCACTGCCTTTTCAGGCCTAGACTTTGGGCTGCTTCCGGATACCTGCATAAGCAAGCC
CTTGTTACTGCTACCCATCTACCTGCACCCTGCTTTTTCCCTCTTGCCACGCTTTTTTCTCCTCCCT
CTTACCCACCCTGTACAAAATGCATAAAGGATGGAAAACTACTGCAGCCAGAAGTCTTTGAATGAG
GCATCAATGGATGAATATTTAGGCAGCTTAGGGCTGTTTCGAAAGCTGACTGCCAAGGATGCCTCTTGC
CTCTTTCGGGCCATTTCCGGAGCAGTTGTTTTGCAGCCAGGTCCATCATTGGAAATCAGGAAGGCTTGT
GTCTCATATAGAGGGAAAATCAACAACTTTTGTAGTCTTATGTGGAGGGATCTTTGAGAAATACCTG
GAACGGTTGGGAGATCCCAAGGAAAGTGTGCCAGCTGGAAATAAGAGCTCTTCTCTAATTTATAAT
CGGGATTTCACTTTATCGCTTCTGGAAAACCTCCAATTATGTCACAGATAATGGCTATGAAGAC
AAGATTCTACTCTGCTACTCAAGTAGTGGTCACTATGATTCTGTGTACTCAAACAATTTTCAGTCAAGT
GCAGCTGTTTGTGAGGCTGATTGTACGAAATTTCTCTATAAAGATGTGTTTGTGTTGGATGAAGAAGAG
TTGAAGACTGCGATTAATTTGTTTCGAAGTGGTTCTAAGAAGAACAGAAAATAATGCTGTAAGTGGAAAGC
GAGGATGCCCATACTGATTACAAGAGTTCAAATCAGAATAGGATGGAAGAGTGGGGTGCCTGCTACAAT
GCTGAAAATATACCAGAGGGCTACAATAAAGGAACAGAAGAAAACAAAGTCTCCAGAAAATCCATCAAAG
ATGCCCTTCCCCTATAAGGTGCTCAAAGCCCTGGATCCAGAAATCTATCGTAATGTAGAATTTGATGTT
TGGTTGGACAGCAGAAAAGAAGTCAAAAATCTGATTACATGGAGTATGCTGGGAGACAGTACTATTTG
GGAGACAAGTGTGAGGTTTGGCTTGAATCAGAAGGAAGATATTATAATGCTCATATCCAGGAAGTTGGA
AATGAGAAACAATTCAGTAACAGTCTTCATTGAAGAATTTGGCGAAAAGCATGTTGTTCCACTGGCTAAC
TTAAAACAGTTACCCAAGTGTGCTGTTCTGCTGGAATGCTATGCCAGTCGGAAAGGAAGGAGGTT
TACCAGAAAATGCCTGGGGGTTATGTCGGGAAAATAGTTATATCAGAGATGGACATAAAGCAACAGAAG
AAGATGTTCAAGAAAATTCGAGGGAAAAGATTTACATGACTATGGCTTACGGCAAGGGAGACCCCTC
CTCCACCCAGGCTGCAGCACAGTATGCATTATGGGCACGATCCTCCAATGCACTACTCACAGACAGCT
GGCAATGTTATGTCTAATGAACATTTTCATCCTCAGCATCCATCTCCGAGACAAGGTCGGGGATATGGG
ATGCCCAGGAATTCATCTCGTTTATAAACAGGCACAACATGCCGGGCCCTAAAGTTGATTTTTACCCA
GGCCAGGTAAAAGGTGCTGCCAGAGCTATGATAAATTCTCTTATAGATCTGTTTCAATTTAGACGTAGT
CACCGCCAGATGAGTTGTGTGAATAAGGAGTCCCAGTATGGATTTACCCAGGGAATGGACAGATGCC
AGGGGCTTGAAGAACTATTACTTTTTATGAAGTTGAAGAAGGGGATGAGACTGCTTATCCAATTTA
CCTAATCATGGAGTCCCTCTACAATGGTTCTGCTACTTCAGGATACTGTGTTGGAAGCGGGGACAT
AGCTCAGGCAACAGACTTTGAATTTAGAGGAGGGCAATGGCCAGAGTGAATAAGGGGATATCATGAA
GAATATCTTTATCGTGCAGAGCCAGACTATGAACTTCAGGTGTTTATAGCACACTGCATCTACAGCA
AACTTGTCTCTTCAGGACAGAAAGTCAATGTTCTATGTCTCCTCAGGACACAGTTACCTCATACAAC
CCCCAGAAGATGATGGGAAAATTTGCAGCAGTTGCAGCTTCTGTGCCAATAATGTTCCAGCTCCAGTC
TTATCTAACGGTGCAGCGGCTAATCAAGCTATTAGTACCCTTCAGTTTCTCACAGAATGCTATACAG
CCTCTCTTTGTATCTCCACCTACACAGGCAGGCCAGATACAAAAGTTTTGCAGTACTATTTCAATCTA
GGATTGCAGTGTATTACCACAGCTACTGGCACTCCATGGTCTATGTGCCACAGATGCAGCAGCAGCTT
CATGTAGAGAATTATCCAGTCTATACTGAGCCACCTCTGGTAGATCAAACCGTTTCCATGCTACAGT
GAGGTGAGGAGAGAAGATGGCATACAGGCGGAAGCATCAGCAAATGATACTTTTTCCGAATGCTGATTCT
TCATCTGTCCCTCATGGAGCAGTCTATTATCCAGTAATGTGAGATCCCTATGGGAGCCACCTTTGCCA
GGTTTTGACTCCTGCCTTCCGGTTGTGCCAGATTATCCTGTGTTCCCCCTGGCATCCAGTTGGTACA
GCATATGGTGGTTCTTCTCAAATTCATGGTGTATAAATCCTGGGCAATGGCTGTATTGCTCCATCT
CCCCAGTCTCTCATTATGTACCTCAGGGTATGTAA
  
```

Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001257230

Insert Size: 2865 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).

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_001257230.1](#)

RefSeq Size: 3838 bp

RefSeq ORF: 2865 bp

Locus ID: 79868

UniProt ID: [Q9NP73](#)

Cytogenetics: Xq23

Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

MW: 106.9 kDa

Gene Summary:

The protein encoded by this gene is a subunit of a bipartite UDP-N-acetylglucosamine transferase. It heterodimerizes with asparagine-linked glycosylation 14 homolog to form a functional UDP-GlcNAc glycosyltransferase that catalyzes the second sugar addition of the highly conserved oligosaccharide precursor in endoplasmic reticulum N-linked glycosylation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2009]

Transcript Variant: This variant (5) uses an alternate splice site in the 5' region, initiates translation at a downstream, in-frame start codon and lacks an exon in the 3' coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (5) is shorter than isoform 1.