

## Product datasheet for **RG233188**

### **GLT28D1 (ALG13) (NM\_001257237) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GLT28D1 (ALG13) (NM_001257237) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ALG13
Synonyms:	CDG1S; CXorf45; DEE36; EIEE36; GLT28D1; MDS031; TDRD13; YGL047W
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG233188 representing NM\_001257237  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAACAATCATCAGCTGGAAGTGGCAAAGCAGCTACACAAGAGGGTCACTCTCTTATTGTACCTGCA  
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 GCTGACTTCAACTGCCTTTTCAGGCCTAGACTTTGGGCTGCTTCCGGTACCTGCATAAGCAAGCCCTT  
 GTTACTGCTACCCATCTACCTGCACCCTGCTTTTCCCTCTTGCCACGCTTTTTTCTCTCCCTCTTA  
 CCCCCACCCTGTACAAAATGCATAAAGGATGGAAAACTACTGCAGCCAGAAGTCTTTGAATGAGGCATC  
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 CGGGCCATTTCCGAGCAGTTGTTTTGCAGCCAGGTCCATCATTTGGAAATCAGGAAGGCTTGTGTCTCAT  
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 AAGGTGCTCAAAGCCCTGGATCCAGAAAATCTATCGTAATGTAGAATTTGATGTTTGGTTGGACAGCAGAA  
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 TTCCTGCTACTTCAGGATCTGTGTTGGAAGGCGGGGACATAGCTCAGGCAACAGACTTTGAATTTAGA  
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 CTGGGCCAATTGGCTGTATTGCTCCATCTCCCCAGCTTCTCATTATGTACCTCAGGGTATG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG233188 representing NM\_001257237  
 Red=Cloning site Green=Tags(s)

MNNHQLELAKQLHKEGHLFYCTCRVLTCPGQAKSIASAPGKCQDSAALTSTAFSGLDFGLLSGYLHKQAL  
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 RAISEQLFC SQVHHLERKACVSYMRENQQT FESYVEGSFEKYLRLGDPKESAGQLEIRALSLIYNRDF  
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 TVFIEELA EKHVVPLANLKPVTQVMSVPAWNAMP SRKGRGYQKMPGGYVPEIIVISEMDIKQKKMFKKIR  
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 YEVEEGDETA YPTLPNHGGPSTMVPATSGYCVGRRGHSSGKQTLNLEEGNGQSENGRYHEEYL YRAEPDY  
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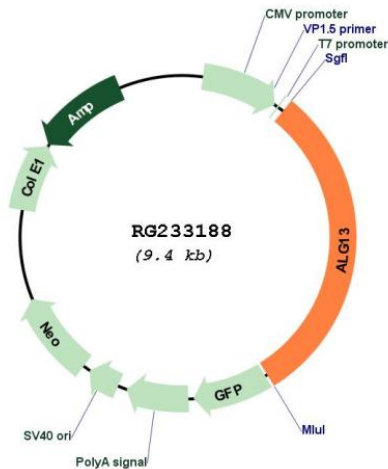
TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001257237

**ORF Size:** 2862 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001257237.1](#), [NP\\_001244166.1](#)

**RefSeq Size:** 4015 bp

**RefSeq ORF:** 2865 bp

**Locus ID:** 79868

**UniProt ID:** [Q9NP73](#)

**Cytogenetics:** Xq23

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

**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]