

Product datasheet for **RG233186**

GLT28D1 (ALG13) (NM_001257230) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLT28D1 (ALG13) (NM_001257230) 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:

>RG233186 representing NM_001257230
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACAATCATCAGCTGGAAGTGGCAAAGCAGCTACACAAAGAGGGTCATCTCTTCTATTGTACCTGCA
 GGGTCCTGACTTGTCTGGGCAAGCCAAGTCCATTGCTTCTGCTCCTGGGAAGTGCCAAGATTCTGCAGC
 GCTGACTTCAACTGCCTTTTCAGGCCTAGACTTTGGGCTGCTTCCGGTACCTGCATAAGCAAGCCCTT
 GTTACTGCTACCCATCTACCTGCACCCTGCTTTTTCCCTCTTGCCACGCTTTTTTCTCTCCCTCTTA
 CCCCCACCCTGTACAAAATGCATAAAGGATGGAAAACTACTGCAGCCAGAAGTCTTTGAATGAGGCATC
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 ATTCTTTATCGCTTTCCTGGAAAACCTCCAACCTTATGTCACAGATAATGGCTATGAGACAAGATTCTAC
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 ATTAATTTGTTTCGAAGTGGTTCTAAGAAGAACAGAAATAATGCTGTAAGTGAAGCGAGGATGCCATA
 CTGATTACAAGAGTTCAAATCAGAATAGGATGGAAGAGTGGGGTGCCTGCTACAATGCTGAAAATATACC
 AGAGGGCTACAATAAAGGAACAGAAGAAACAAAGTCTCCAGAAAATCCATCAAAGATGCCCTTCCCTAT
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 TATGAAGTTGAAGAAGGGGATGAGACTGCTTATCCAACTTTACCTAATCATGGAGGTCCTCTACAATGG
 TTCCTGCTACTTCAGGATACTGTGTTGGAAGGCGGGGACATAGCTCAGGCAAACAGACTTTGAATTTAGA
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 TGTGTTCCCCCTGGCATCCAGTTGGTACAGCATATGGTGGTTCTTCTCAAATTCATGGTGTATAAATC
 CTGGGCCAATTGGCTGTATTGCTCCATCTCCCCAGCTTCTCATTATGTACCTCAGGGTATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG233186 representing NM_001257230
 Red=Cloning site Green=Tags(s)

MNNHQLELAKQLHKEGHLFYCTCRVLTCPGQAKSIASAPGKCQDSAALTSTAFSGLDFGLLSGYLHKQAL
 VTATHPTCTLLFPSCHAFFPLPLTPTLYKMHKGWKNYCSQKSLNEASMDEYLGSLGLFRKLTAKDASCLF
 RAISEQLFCSQVHHLERKACVSYMRENQQTFFESYVEGSFEKYLRLGDPKESAGQLEIRALSLIYNRDF
 ILYRFPKPTTYVTDNGYEDKILLCYSSSGHYDSVYSKQFQSSAAVCQAVLYEILYKDFVVDDEELKTA
 IKLFRSGSKNRNNAVTGSEDAHTDYKSSNQNRMEEWGACYNAENIPEGYNKGTEETKSPENPSKMPFPY
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 TVFIEELAETHVPLANLKPVTQVMSVPAWNAMPSPRKGRGYQKMPGGYVPEIIVISEMDIKQKKMFKKIR
 GKEVYMTMAYGKGDPLLPRLQHSMHYGHDPMPHYSQTAGNVMSNEHFHPQHSPRQGRGYGMPRNSRF
 INRHNMGPVKVDFYPGPGKRCCQSYDNFSYRSRFRSHRQMSCVNKESQYGFTPNGQMPRGLEETITF
 YEVEEGDETAIPTLPHGGPSTMVPATSGYCVGRRGHSSGKQTLNLEENGQSENGRYHEEYLRAEPDY
 ETSGVYSTTASTANLSLQDRKSCSMSPQDVTVSYNYPQKMMGNI AAVAASCANNVPAPVLSNGAAANQAI
 STTSVSSQNAIQPLFVSPPTHGRPDTKVLQYYFNLGLQCYHYSWHSMVVYVPMQMQQLHVENYPVYTEPP
 LVDQTPVQCYSVRRREDGIQAEASANDTFPNADSSSVPHGAVYYPVMSDPYGPPLPGFDSCLPVVPDYS
 CVPPWHPVGTAYGGSSQIHGAINPGPIGCIAPSPASHYVPOGM

TRTRPLE - GFP Tag - V

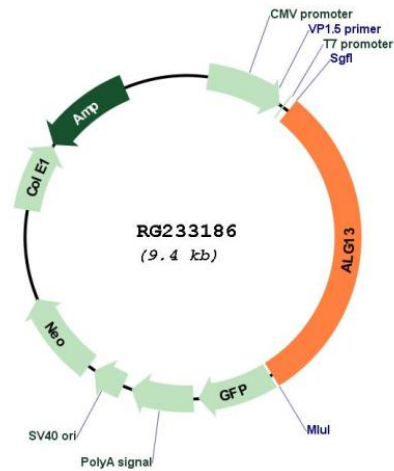
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001257230

ORF Size: 2862 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001257230.2
RefSeq Size:	3838 bp
RefSeq ORF:	2865 bp
Locus ID:	79868
UniProt ID:	Q9NP73
Cytogenetics:	Xq23
Protein Pathways:	Metabolic pathways, N-Glycan biosynthesis
Gene Summary:	<p>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]</p>