

Product datasheet for **RC233187**

GLT28D1 (ALG13) (NM_001257234) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | GLT28D1 (ALG13) (NM_001257234) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | GLT28D1 |
| Synonyms: | CDG1S; CXorf45; DEE36; EIEE36; GLT28D1; MDS031; TDRD13; YGL047W |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC233187 representing NM_001257234
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACAATCATCAGCTGGAAGTGGCAAAGCAGCTACACAAGAGGGTCACTCTCTTATTGTACCTGCA
 GGGTCCTGACTTGTCTGGGCAAGCCAAGTCCATTGCTTCTGCTCCTGGGAAGTGCCAAGATTCTGCAGC
 GCTGACTTCAACTGCCTTTTCAGGCCTAGACTTTGGGCTGCTTCCGGTACCTGCATAAGCAAGCCCTT
 GTTACTGCTACCCATCCTACCTGCACCCTGCTTTTTCCCTCTTGCCACGCTTTTTTCTCTCCCTCTTA
 CCCCCACCCTGTACAAAATGCATAAAGGATGGAAGAACTACTGCAGCCAGAAGTCTTTGAATGAGGCATC
 AATGGATGAATATTTAGGCAGCTTAGGGCTGTTTCGAAAGCTGACTGCCAAGGATGCCTCTTGCCTCTT
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 GGGAGATCCCAAGAAAGTGTGCCAGCTGGAATAAGAGCTCTTCTCTAATTTATAATCGGGATTTT
 ATTCTTTATCGCTTTCCTGGAAAACCTCCAACCTTATGTCACAGATAATGGCTATGAAGACAAGATTCTAC
 TCTGCTACTCAAGTAGTGGTCACTATGATTCTGTGTACTCAAAAACAATTCAGTCAAGTGCAGCTGTTTG
 TCAGGCTGTATTGTACGAAATTCCTATAAAGATGTGTTTGTGGATGAAGAAGATTGAAGACTGCG
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 AAGGTGCTCAAAGCCCTGGATCCAGAAAATCTATCGTAATGTAGAATTTGATGTTTGGTTGGACAGCAGAA
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 ACAGTCTTCATTGAAGAATTGGCGGAAAAGCATGTTGTTCCACTGGCTAACTTAAAACCAGTTACCAAG
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 GTATGCATTATGGGCACGATCCTCCAATGCACTACTCACAGACAGCTGGCAATGTTATGTCTAATGAACA
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 GGAGTCCAGTATGGATTTACCCAGGGAATGGACAGATGCCAGGGGCTTGAAGAAAATATTACTTTT
 TATGAAGTTGAAGAAGGGGATGAGACTGCTTATCCAACTTTACCTAATCATGGAGGTCCTCTACAATGG
 TTCCTGCTACTTCAGGATACTGTGTTGGAAGGCGGGGACATAGCTCAGGCAAACAGACTTTGAATTTAGA
 GGAGGGCAATGGCCAGAGTGAAGTGGGCGATATCATGAAGAATATCTTTATCGTGCAGAGCCAGACTAT
 GAAACTTCAGGTGTTTATAGCACAACCTGCATCTACAGCAAACCTTGCTCTTCAGGACAGAAAAGTCATGTT
 CTATGTCTCCTCAGGACACAGTTACCTCATAACAACCTACCCCAAGAGATGATGGGAAATATTGCAGCAGT
 TGCAGCTTCTGTGCCAATAATGTTCCAGCTCCAGTCTTATCTAACGGTGCAGCGCTAATCAAGCTATT
 AGTACCATTTCAGTTTCCCTCACAGAATGCTATACAGCCTCTCTTTGTATCTCCACCTACACAGGACGGC
 CAGATACAAAAGTTTTGCAGTACTATTTCAATCTAGGATTGCAGTGTATTACCACAGCTACTGGCACTC
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 CTGGTAGATCAAACCGTTCCTCAATGCTACAGTGAAGTGAAGGAGAGAAGATGGCATAACAGGCGGAAGCAT
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 GTCAGATCCCTATGGGCAGCCACCTTTGCCAGGTTTTGACTCCTGCCTCCGGTTGTGCCAGATTATTCC
 TGTGTTCCCCCTGGCATCCAGTTGGTACAGCATATGGTGGTTCTTCTCAAATTCATGGTGTATAAATC
 CTGGGCCAATTGGCTGTATTGCTCCATCTCCCCAGCTTCTCATTATGTACCTCAGGGTATG

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC233187 representing NM_001257234
 Red=Cloning site Green=Tags(s)

MNNHQLELAKQLHKEGHLFYCTCRVLTCPGQAKSIASAPGKCQDSAALTSTAFSGLDFGLLSGYLHKQAL
 VTATHPTCTLLFPSCHAFFPLPLTPTLYKMHKGWKNYCSQKSLNEASMDEYLGSLGLFRKLTAKDASCLF
 RAISEQLFC SQVHHLEIRKACVSYMRENQQTFFESYVEGSFEKYLRLGDPKESAGQLEIRALSLIYNRDF
 ILYRFPGKPPTYVTDNGYEDKILLCYSSSGHYDSVYSKQFQSSAAVCQAVLYEILYKDFVVDDEELKTA
 IKLFRSGSKNRNNAVTSGEDAHTDYKSSNQNRMEEWGACYNAENIPEGYNKGTEETKSPENPSKMPFPY
 KVLKALDPEIYRNVFDFVWLDNRKELQKSDYMEYAGRQYYLGDKCQVCLESEGRYYNAHIQEVGNENNSV
 TVFIEELAETHVPLANLKPVTQVMSVPAWNAMPSRKGRGYQKMPGGYVPEIIVISEMDIKQKKMFKKIR
 GKEVYMTMAYGKGDPLLPRLQHSMHYGHDPMPHYSQTAGNVMSNEHFHPQHPSRQGRGYGMPRNSRF
 INRHMPGPKVDFYPGPKRCCQSYDNFSYRSRFRSHRQMSCVNKESQYGFTPNGQMPRGLEETITF
 YEVEEGDETA YPTLPNHGGPSTMVPATSGYCVGRRGHSSGKQTLNLEEGNGQSENGRYHEEYLRAEPDY
 ETSGVYSTTASTANLSLQDRKSCSMSPQDVTVSYNYPQKMMGNI AAVAASCANNVPAPVLSNGAAANQAI
 STTSVSSQNAIQPLFVSPPTHGRPDTKVLQYYFNLGLQCYHYSWHSMVVYPQMQQQLHVENYPVYTEPP
 LVDQTPVQCYSVRRREDGIQAEASANDTFPNADSSSVPHGAVYYPVMSDPYGPPLPGFDSCLPVVDPYS
 CVPPWHPVGTAYGGSSQIHGAINPGPIGCIAPSPASHYV PQGM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

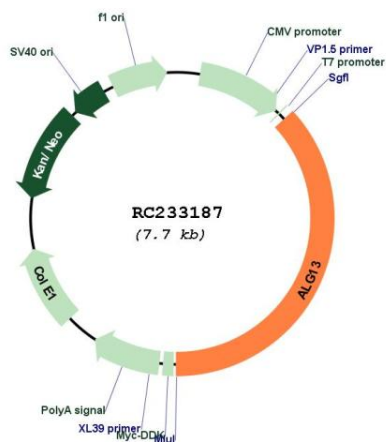


ACCN: NM_001257234

ORF Size: 2862 bp

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|-------------------------------|---|
| 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: | <ol style="list-style-type: none">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_001257234.1 , NP_001244163.1 |
| RefSeq Size: | 3911 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] |

Product images:



Circular map for RC233187