

Product datasheet for **RG215501**

ALG12 (NM_024105) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALG12 (NM_024105) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ALG12
Synonyms:	CDG1G; ECM39; hALG12; PP14673
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG215501 representing NM_024105
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGGAAGGGGTCATCAGGCAGGCGGCCCTGCTGCTGGGGCTGCTGGTGGCCGTAGCCACTGTCC
 ACCTGGTCATCTGTCCCTACACCAAAGTGGAGGAGAGCTTCAACCTGCAGGCCACACATGACCTGCTCTA
 CCACTGGCAAGACCTGGAGCAGTACGACCATCTTGAGTCCCGGAGTCGTCGCCAGGACGTTCTCGGG
 CCAGTGGTATCGCAGTGTCTCCAGCCCCGCGGTTTACGTGCTTTCGCTGTTAGAAATGTCCAAGTTTT
 ACTCTCAGCTAATAGTTAGAGGAGTGTGGACTCGGCGTGATTTTTGGACTCTGGACGTTACAAAAGGA
 AGTGAGACGGCACTTCGGGGCCATGGTGGCCACCATGTTCTGCTGGGTGACGGCCATGCAGTTCACCTG
 ATGTTCTACTGCACGCGGACACTGCCAATGTGCTGGCCCTGCCTGTAGTCTGCTGGCCCTCGCGGCT
 GGCTGCGGCACGAGTGGGCCGCTTTCATCTGGCTGTCAGCCTTCGCCATCATCGTTCAGGGTGGAGCT
 GTGCCCTGTTCTGGCCCTCTGCTGCTGCTGGCCCTGGGCAACCGAAAGGTTTCTGTAGTCAGAGCCCTT
 CGCCACGCGCTCCCGGCAGGGATCCTCTGTTTAGGACTGACGGTGTGCTGGACTCTATTTTTGGCGGC
 AGCTCACTTGGCCGGAAGGAAAGGTGCTTTGGTACAACACTGTCCTGAACAAAAGCTCCAAGTGGGGAC
 CTCCCCGCTGCTGTGGTACTTCTACTCAGCCCTGCCCCGCGGCCTGGGCTGCAGCCTGCTTTCATCCCC
 CTGGGCTTGGTAGACAGAAGGACGCACGCGCCGACGGTGTGGCCTGGGCTTTCATGGCACTTACTCCC
 TCCTGCCACACAAGGAGCTACGTTTCATCATCTATGCCTCCCATGCTCAACATCACGGTGCAGAGG
 CTGCTCCTACCTGCTGAATAACTATAAAAAGTCTTGGCTGTACAAAGCGGGTCTCTGCTGTGATCGGA
 CACCTCGTGGTGAATGCCGCTACTCAGCCACGGCCCTGTATGTGTCCCATTTCAACTACCCAGGTGGCG
 TCGCAATGCAGAGGCTGCACACGCTGGTGGCCCGCCAGACAGAGCTCCTTCTGCAGTTGACGTGGCAG
 CGCCACAGACAGGTGTGCTCGGTTTCTCCAAGTCAACAGCGCCTGGAGGTACGACAAGAGGGAGGATGTG
 CAGCCGGGACAGGCATGCTGGCATAACACACATCCTCATGGAGGCGGCCCTGGGCTCTGGCCCTCT
 ACAGGGACACACACCGGGTCTGGCCAGCGTGTGGGACCACAGGTGTGAGTCTGAACCTGACCCAAC
 GCCCCCTTCAACGTCCACCTGCAGACAAAGCTGGTGTCTGGAGAGGCTCCCCCGCCGCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG215501 representing NM_024105
 Red=Cloning site Green=Tags(s)

MAGKGSSGRRPLLLGLLVAVATVHLVICPYTKVEESFNLQATHDLLYHWQDLEQYDHLFPGVVPRTFLG
 PVVIAVFSPPAVYVLSLLEMSKFYSQIIVRGVGLGLGVIFGLWTLQKEVRRHFGAMVATMFCWVTAMQFHL
 MFYCTRTPNLVLAALPVVLLALAAWLRHEWARFIWLSAFIIVFRVELCLFLGLLLLLALGNRKVSVVRAL
 RHAVPAGILCLGLTVAVDSYFWRQLTWPEGKVLWYNTVLNKSSNWGTSPLLWYFYSALPRGLGCSLLFIP
 LGLVDRRTHAPTVLALGFMALYSLLPHKELRFIIYAFPLNITAARGCSYLLNYYKSWLYKAGSLLVIG
 HLVVNAAYSATALYVSHFNYPGGVAMQRLHQLVPPQTDVLLHVDVAAAQTGVSRLFQVNSAWRYDKREDY
 QPGTGMLAYTHILMEAAPGLLALYRDTHRVLASVVGTTGVSLNLTQLPPFNHLQTKLVLLERLPRPS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_024105

ORF Size: 1464 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_024105.3](#), [NP_077010.1](#)

RefSeq Size: 2387 bp

RefSeq ORF: 1467 bp

Locus ID: 79087

UniProt ID: [Q9BV10](#)

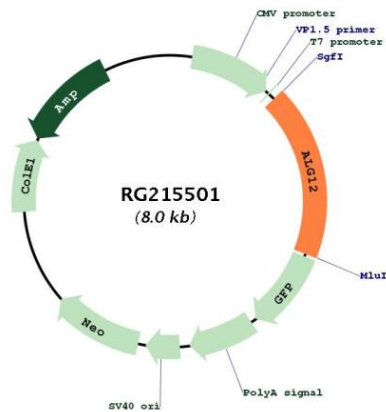
Cytogenetics: 22q13.33

Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

Gene Summary: This gene encodes a member of the glycosyltransferase 22 family. The encoded protein catalyzes the addition of the eighth mannose residue in an alpha-1,6 linkage onto the dolichol-PP-oligosaccharide precursor (dolichol-PP-Man(7)GlcNAc(2)) required for protein glycosylation. Mutations in this gene have been associated with congenital disorder of glycosylation type Ig (CDG-Ig) characterized by abnormal N-glycosylation. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG215501