

Product datasheet for **RG204062**

ALG14 (NM_144988) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALG14 (NM_144988) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ALG14
Synonyms:	CMS15; IDDEBF; MEPCA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204062 representing NM_144988 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGTGCGTTCTCGTTCTAGCTGCGGCCGAGGAGCTGTGGCGTTTTCTAATCCTGCGAATATGGG
TAGTGCTTCGTTCCATGGACGTTACGCCCGGGAGTCTCTCAGTATCTTGGTAGTGGCTGGGTCCGGTGG
GCATACCACTGAGATCCTGAGGCTGCTGGGAGCTTGCCAATGCCTACTCACCTAGACATTATGTCATT
GCTGACACTGATGAAATGAGTGCCAATAAAATAAATTCTTTGAACTAGATCGAGCTGATAGAGACCCTA
GTAACATGTATACCAAATACTACATTACCGAATTCGAAGAAGCCGGGAGTTTCAGCAGTCTGGCCCTC
CACCGTTTTACACACTTGCCTCATGTGGCTCTCCTTTCCCTAATTCACAGGGTGAAGCCAGATTTG
GTGTTGTGTAACGGACCAGGAACATGTGTTCTATCTGTGTATCTGCCCTTCTCCTGGGATACTAGGAA
TAAAGAAAGTGATCATTGTCTACGTTGAAAGCATCTGCCGTGTAGAAACGTTATCCATGTCCGAAAGAT
TCTGTTTCATCTCTCAGATTACTTCATTGTTTCAGTGGCCGGCTCTGAAAGAAAAGTATCCAAATCGGTG
TACCTTGGGCGAATTGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204062 representing NM_144988
 Red=Cloning site Green=Tags(s)

MVCVLVLAAGAVAVFLILRIWVVLRSMDVTPRESLSILVVAGSGGHTTEILRLLGSLSNAYSPRHVVI
 ADTDEMSANKINSFELDRADRDPSNMYTKYYIHRIPRSREVQQSWPSTVFTLLHSMWLSFPLIHRVKPDL
 VLCNPGPTCVPICVSALLL GILGIKKVIVVYVESICRVETLSMSGKILFHLSDYFIVQWPALKEKYPKSV
 YLGRIV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_144988

ORF Size: 648 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_144988.4](#)

RefSeq Size: 1032 bp

RefSeq ORF: 651 bp

Locus ID: 199857

UniProt ID: [Q96F25](#)

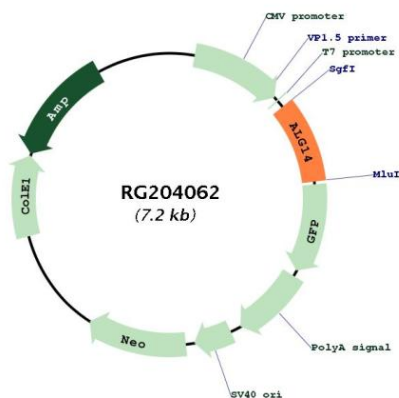
Cytogenetics: 1p21.3

Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

Gene Summary: This gene is a member of the glycosyltransferase 1 family. The encoded protein and ALG13 are thought to be subunits of UDP-GlcNAc transferase, which catalyzes the first two committed steps in endoplasmic reticulum N-linked glycosylation. Mutations in this gene have been linked to congenital myasthenic syndrome (CMSWTA). Alternatively spliced transcript variants have been identified. [provided by RefSeq, Mar 2015]

Product images:



Circular map for RG204062